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# The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

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Annual Subscription (with  
Diary) 25/- Single Copies 9d.

SCIENCE &amp; PHARMACY

SERIES No. 36



Professor JOHN A. EASTON, M.D.  
1807——1865

Is chiefly remembered for having devised the syrup of the Three Phosphates with which his name is associated. Born in India, a son of a Member of the Indian Medical Service, he became Professor of Materia Medica at Anderson's College, Glasgow. He was also noted as an eloquent exponent of Forensic Medicine and Pharmacy.

## BURGOYNE BURBIDGES

Established 1741.

&amp; COMPANY LIMITED, LONDON. E.6





ABOVE is shown equipment necessary for pill-making. Something more is needed, however — craftsmanship, accuracy and long practice. These qualities your chemist certainly possesses. For before he can open his pharmacy, a registered chemist passes a stringent test in pill-making and other subjects to the satisfaction of the examiners of the Pharmaceutical Society. The chemist is a vital part of the country's health organization. His skill and knowledge are at your disposal and justify your confidence.

*Ask your chemist's opinion of*

## **Euthymol**

### **TOOTH PASTE**

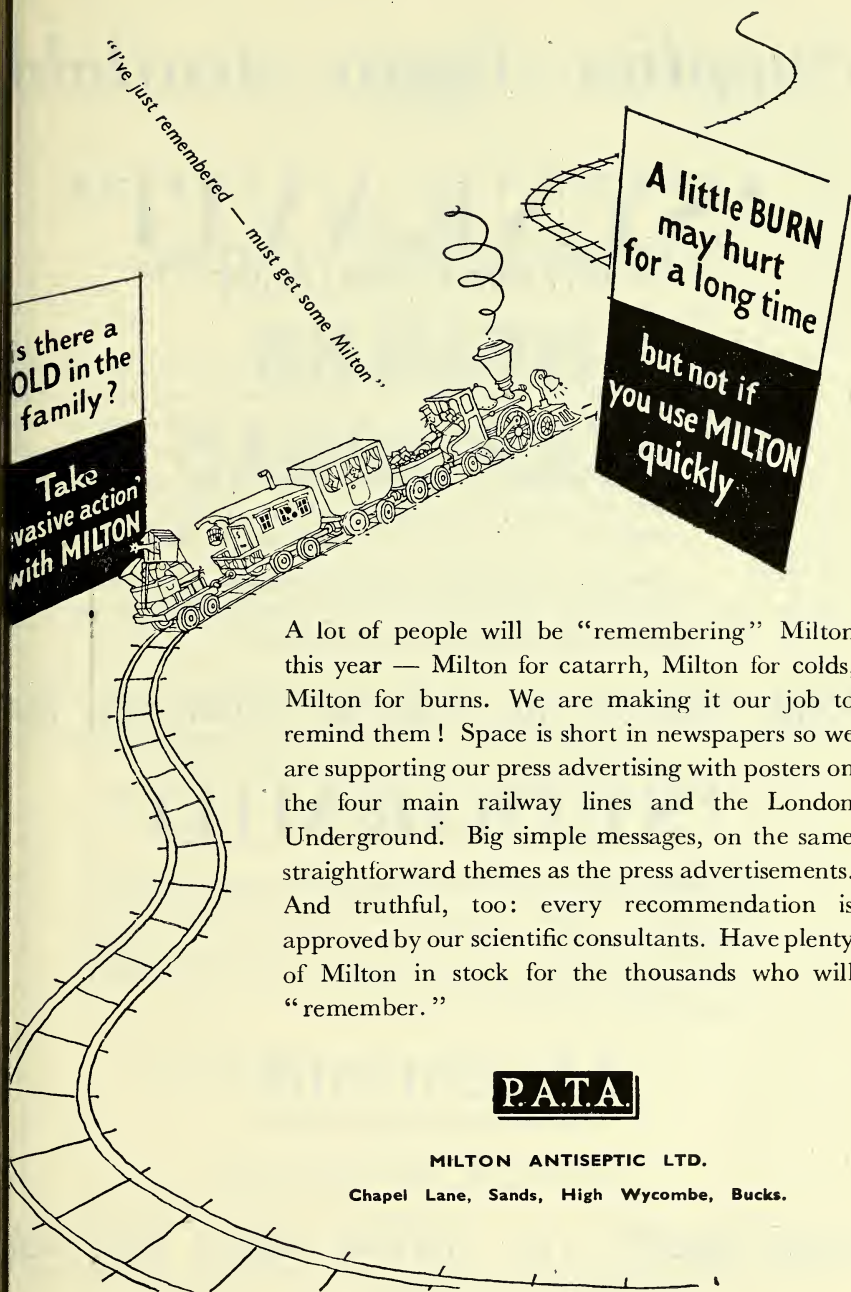
***T**HIS is a current example of the Euthymol advertisements that have been appearing continuously for the last three years in several well-known periodicals, with the object of stimulating a keener appreciation of the wide extent of pharmaceutical knowledge and training, and of the service the pharmacist renders to the community.*

**PARKE, DAVIS & CO.**

50 BEAK STREET, LONDON. W.1

*Inc. U.S.A. Liability Ltd.*





A lot of people will be "remembering" Milton this year — Milton for catarrh, Milton for colds, Milton for burns. We are making it our job to remind them! Space is short in newspapers so we are supporting our press advertising with posters on the four main railway lines and the London Underground. Big simple messages, on the same straightforward themes as the press advertisements. And truthful, too: every recommendation is approved by our scientific consultants. Have plenty of Milton in stock for the thousands who will "remember."

**P.A.T.A.**

MILTON ANTISEPTIC LTD.

Chapel Lane, Sands, High Wycombe, Bucks.

# Supplies Again Available

## 'SYNKAVIT'

### VITAMIN K ANALOGUE



After a considerable lapse of time, water soluble 'Synkavit' Vitamin K Analogue in ampoule form is once again available and should be adequate to fill small to medium size orders. Pharmacists may recommend 'Synkavit' to physicians and surgeons with confidence because of its potency, stability and convenience in administration. It can be injected intravenously or intramuscularly and is well tolerated.



'Synkavit' Vitamin K analogue in 1 c.c. ampoules (10 mg.) is issued in packings of 6. Also issued in tablets (10 mg.) 20's, 100's, and for dispensing, 500's.

**ROCHE PRODUCTS LTD., WELWYN GARDEN CITY, HERTS.**

## 'SEDORMID'

Reasonably adequate supplies are again available, and in the next few weeks we hope to be able still further to increase production. It has been necessary to ration deliveries severely, but after this date only exceptionally large orders will have to be reduced.

## 'Sedormid'

allyl-isopropyl-acetyl-carbamide

*Issued in the following packings, 20's, 100's  
and for dispensing, 200's. (Note Schedule 1)*

**ROCHE PRODUCTS LTD., WELWYN GARDEN CITY, HERTS.**

*Scottish Depot: 665 Great Western Road, Glasgow, W.2*

MEDICAL **EVANS** SUPPLIES

# Super-Suspensible **BISMUTH CARBONATE**

A light Bismuth Carbonate which is not excessively bulky in the dry state but diffuses perfectly in a fluid mixture giving a prolonged and homogeneous suspension. Even after long standing it is readily re-diffused.

Evans Super-Suspensible Bismuth Carbonate is consistent in density and maintains a standard of purity which meets the demands of all pharmacopœias.

**EVANS SONS LESCHER & WEBB LTD**

FINE CHEMICALS • BIOLOGICALS • PHARMACEUTICALS





**a woman's DUTY...**

"On duty," at home, at all times there is always a Rendell's Product of intimate importance to every woman. In Nurse Drew's booklet, "Hygiene for Women," will be found helpful solutions to many feminine problems and full information about Rendell's Products.

For over 50 years the name Rendell has symbolised a standard of excellence well recognised and approved by the Medical Profession. Ask your chemist for a copy of the booklet.

**NURSE DREW, VICTORIA HOUSE, SOUTHAMPTON ROW, LONDON, W.C.2**

**APPROVED BY DOCTORS**

**RENDELLS**  
FOR FEMININE HYGIENE

**ADVERTISING WHICH NEVER STOPS**

Rendell's Products rank among Britain's greatest proprietary lines. War-time restrictions alone limit the upward trend of their sales. Consistent, dignified advertising at all times has achieved this proud result. Ample window and counter display material is still available for all Pharmacists.

**Rendell's**  
**PRODUCTS**  
**FOR FEMININE HYGIENE**

**P.A.T.A.**

**W. J. RENDELL LTD HARDWICK HOUSE 151 S ROSEBERY AVE LONDON E.C.1**

# 10 essential mineral salts

Pharmacists know the underlying cause of most Rundown, Nervous Conditions and Deficiency Cases is Mineral and Vitamin deficiency. In such cases VIKELP supplies the need for a sure and certain corrective.

Obtainable from your regular Wholesaler or J. C. Ambles & Co., Ltd., 1215, Blackfriars Road, London, S.E.1.

**CALCIUM · IRON  
IODINE · SULPHUR  
SODIUM  
PHOSPHORUS  
COPPER  
MAGNESIUM  
POTASSIUM  
CHLORINE  
and VITAMIN B<sub>1</sub>**

# VIKELP

Nutritional Food Tonic

HEALTH PRODUCTS LABORATORIES LTD.  
128-134 Baker Street, London, W.1

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## WATTFORD CHEMICAL CO. LTD.

30 BAKER ST., LONDON, W.1

Codes: A.B.C. Bentleys' 5th Edition



Telephone: Wel. 6870-8-9

Telegrams: Watchempro, Wesdo, London

<b>PROMULSIN</b>	RANGE OF UNIVERSAL EMULSIFYING AGENTS, including Promulsin Wax, Powder and various higher alkyl cellulose derivatives.
<b>SULPHOSAL</b>	Brands of sulphonated lauryl-cetyl alcohols and peralcohols for shampoos, household foaming agents and detergents.
<b>FUNGICIDES</b>	n-phenyl salicylamide, chlor-phenols, o-chlor. p.n. Butyl Pheno! (R.W. coeff. 141), parachlorosalicylic acid, and many others.
<b>SOLVENTS</b>	Without restrictions—For all pharmaceutical, technical and food uses. TRIOXOLANE, ACETATE SOLVENT, OILS: MINERAL and SELF-EMULSIFYING.
<b>STABALIN</b>	Series of preservatives, antioxidants and stabilising agents for vitamins, hormones, alkaloids, essential oils, etc.
<b>GALENICALS</b>	B.P., B.P.C. and U.S.P. syrups, extracts, infusions and tinctures, e.g., Exts. glycyrrh, colchici, cascara, tinct. benz. co., etc.
<b>PERFUMERY COMPOUNDS</b>	Methyl, ethylpropyl, phenyl, menthyl — benzoates — salicylates — formates, etc. Lavender, Neroli, Yara Yara, Hawthorn and other synthetics and florals.
<b>SULPHONAMIDES</b>	Sulphaguanidine, sulphathiazole, sulphacetamide, sulphamerazine, sulphadiazine, sulphapyrazine, colloidal sulphonamides, sulphanilyl mandelate.
<b>INSECTICIDES</b>	Anascabex for scabies; Insectosal; D.D.T. & Z.D.T.; Poly-chlorophenol larvicide; di-nitro cresols for horticultural use.



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Fig. 202  
LEATHER

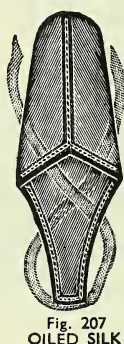


Fig. 207  
OILED SILK



Fig. 211



Fig. 665.

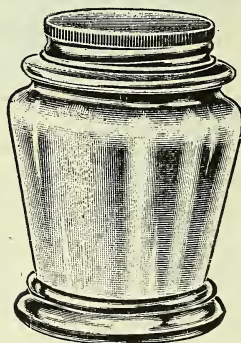


Fig. 415  
2 oz. METAL CAPS

**IMMEDIATE DELIVERY FROM STOCK**

*Favourable Wholesale terms*

**Made and Stocked by— M. J. FECHER, LTD.**

**121 High Street, SLOUGH, BUCKS.**

Phone: SLOUGH 71864

Established 1891

# In constant demand!



What is your stock position? Is it time you ordered again? Supplies are not unlimited. By ordering well in advance you will lessen the risk of being out of stock through unavoidable delivery delays, and, at the same time, assist us to arrange an equitable distribution of available supplies. VENO, THERMOGENE, PHENSIC are firmly established, quick-selling, profitable lines. Order well ahead!

**VENO DRUG CO. LTD.**  
**CHESTER ROAD · MANCHESTER, 16**

*Famed the World over*  
*for*  
**QUALITY PRODUCTS**  
*and*  
**DEPENDABLE SERVICE**

FOUNDED™



1839

**MANUFACTURING CHEMISTS**

*with long experience, aided by modern scientific  
production facilities and specializing in the  
manufacture of PILLS and TABLETS*

**ARTHUR H. COX & CO. LTD.**

---

BRIGHTON

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# BIOLOGICAL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

		Retail Price	CHEMISTS' PRICE					
			Per unit		Per dozen			
		(inclusive of Tax)	Net	+	Purchase Tax	Net	+	Purchase Tax
<b>ANTIPEOL</b>								
MENT	4 oz. tube .. .. .	6/8½	4/2½	+	8½	50/5	+	8/5
	40 gr. „ .. .. .	3/4½	2/1½	+	4½	25/3	+	4/3
	20 gr. „ .. .. .	1/10½	1/2	+	2½	14/-	+	2/4
QUID	40 c.c. bottle .. .. .	3/4½	2/1½	+	4½	25/3	+	4/3
<b>PHTHALMO-ANTIPEOL</b>								
	gr. Nozzled Tube .. .. .	3/4½	2/1½	+	4½	25/3	+	4/3
<b>RHINO-ANTIPEOL</b>								
	gr. Nozzled Tube .. .. .	2/9½	1/9	+	3½	21/-	+	3/6
<b>INTEROFAGOS</b> (ORAL AND INJECTABLE)								
	Box of 50 ampoules .. .. .	19/-	13/3½		None	159/7		None
	„ 10 „ .. .. .	4/3	3/-		None	35/8		None
	„ 5 „ .. .. .	2/6	1/9		None	21/-		None
<b>ETENSYL</b>								
	Box of 500 tablets .. .. .	39/-	24/-	+	4/-	288/-	+	48/-
	Box of 50 „ .. .. .	4/5½	2/8½	+	5½	32/4	+	5/3
<b>T. JAMES' BALM</b>								
	Box of approx. 2½ oz. .. .. .	2/10	1/11	+	4	22/6	+	3/9
	„ „ 1 oz. .. .. .	1/5	11	+	2	11/3	+	1/11
	Box .. .. .	1/2	9	+	2	9/-	+	1/6

Carriage paid on all orders of 1 dozen or £1 and over.

Terms: NETT, monthly account. \*

**MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25**

# URGENT EMPTY CASES *please*

For some time past we have experienced considerable difficulty in despatching supplies of Andrews because of the acute shortage of cases.

## The position is NOW SERIOUS

and unless customers holding Andrews empty cases return them immediately a hold-up in deliveries will result. Your co-operation is requested. Postage or carriage will be credited.

### HOW TO SEND

Fold cases flat, flaps inside, tie up. Ready addressed gummed labels obtainable from our travellers, or direct from us. Up to 15 lbs., by post (*state cost on label*). Over 15 lbs., by rail, c/fwd (*or state cost on label*).

# ANDREWS

SCOTT & TURNER, LTD.

Andrews House, Newcastle-upon-Tyne, 2

T9

*"You can depend on Simpkins"*



says **M<sup>c</sup>VITALITY**

To ALL Chemists who have NOT been serviced during the last six months.

**GLUCOSE MEDICATIONS.** Datum year purchasers please apply within seven days for quota of available distribution as fixed by M.O.F. Otherwise balance must be distributed in smaller quantities to non-datum year purchaser chemists who are invited to make application forthwith.

**VITA GLUCOSE.** By arrangement with the ministries concerned, there are sufficient supplies for all Diabetics on Insulin and urgent medical cases. **GLUCOSE CONFECTIONS.** (1) Available for URGENT MEDICAL CASES against individual prescriptions. (2) Normal sales in EASTERN ZONE only, against Transfer Forms.

**VITALISED STOMACH POWDER.** Each teaspoonful contains, in addition to the enzymes Diastase and Papain, 35 international units of Vitamin B1.

# Simpkins



of Sheffield

## RAPIDEX BRUSHLESS SHAVING CREAM

In jars at 1/- and 1/4



## RAPIDEX ANTI-BLUNT

will treble the life of razor blades.

1/- per bottle.

Wholesale Distributors:

## BENGUE & Co. Ltd.

Manufacturing Chemists

Mount Pleasant, Alpertons, Wembley





## WHEN CONFIDENCE IS JUSTIFIED

Remembering our years of experience in tablet making, backed by a policy based on high principles, the Chemist can be confident of his customer's satisfaction. Our products are bound to please.



MANUFACTURING CHEMISTS

ESTABLISHED 1860 • DERBY 4266-8

# VELOCUM →

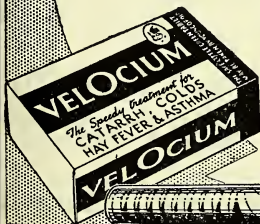
*the speedy specific against*  
**HAY FEVER & CATARRH**

This proven and reliable treatment is in great demand during the Hay Fever and Summer Colds Season.

Safe and effective, it has no deleterious after effects, but gives swift relief to all sufferers from these distressing seasonal complaints.

Widely advertised in the National, Provincial and Periodical Press, you may expect to be asked for this highly successful treatment.

## **SPEEDY SALES!**



Sold retail in boxes at 1/5 and 3/4

EMMET DISTRIBUTING CO., LTD., 140 Park Lane, London, W.1

Telephone: MAYFAIR 6756

# CODOFORME BOTOL

## TABLETS

(Indicated in all types of dry cough)

Owing to circumstances beyond our control, we regret that CODOFORME BOTOL has been in short supply, but we are now pleased to advise you that this preparation

**IS AGAIN AVAILABLE**  
**IN PACKINGS OF 20 AND 250 TABLETS**

If any difficulty is experienced in obtaining supplies through the normal trade channels, you are invited to communicate with us.

**CONTINENTAL LABORATORIES LTD.**  
**101 GREAT RUSSELL STREET, LONDON, W.C.1**

Telephone: MUSEUM 2042/3

## HALIBUT LIVER OIL CAPSULES

We can still supply by return of post.

Boxes of 24 Capsules 11/- doz., 60, 22/- doz.,

**LOFHOUSE & SALTNER LTD. HULL**



**GROUND**  
**DRIED YEAST**  
**MIDGLEY & PARKINSON, LTD.**  
**WARREN WORKS, PUDSEY, LEEDS**

Your Customers will want  
**NUTILIS ANT KILLER** Pkts. 9d.; Tins 2  
and  
**NUTILIS LAWN FOOD** Cartons 2  
Order your Stocks now.  
**NUTILIS PRODUCTS LTD., KINGSTON-ON-THAM**

**MILLAMALT** *The* **VITAMIN MALT FOOD**  
With Vitamins (A. 6,500 I.U., D. 400 I.U. per fl. oz.)  
Sole Manufacturers.  
**JEFFREYS, MILLER & Co. Ltd., Leyland Mills, WIGAN, London Dock 19 Brookside Road, N.**



# SPARKLING Harrogate Health Salts



17/- per doz.  
(Purchase tax 2/10)  
Retail selling price  
2/- (incl. tax).

32/- per doz.  
(Purchase tax 5/4)  
Retail selling price  
3/9 (incl. tax).

Supplies are restricted but orders are dealt with in rotation. You are invited to apply for a quota to the

Sole Selling Agents:

**KORAY LTD.**

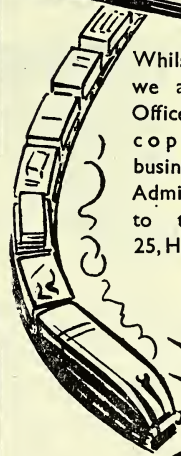
Koray House, 25 Hanover Square, London, W.1

Manufactured by

The Harrogate Tablet Co. Ltd., Harrogate



*We've moved  
to LONDON*



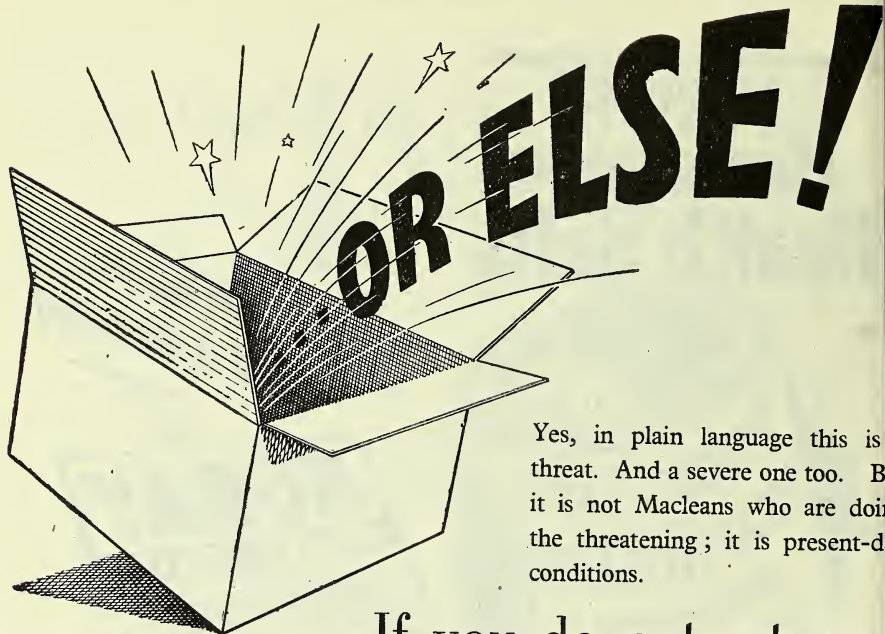
Whilst domiciled in Blackpool we always maintained a Sales Office in London. Now, to cope with ever-increasing business, the whole Sales and Administration have moved to the new Koray House, 25, Hanover Square, London, W.1



THE HOUSE  
OF

**KORAY**

25, Hanover Square, London, W.1



Yes, in plain language this is a threat. And a severe one too. But it is not Macleans who are doing the threatening; it is present-day conditions.

If you do not return  
**MACLEANS CARDBOARD CONTAINERS**  
 promptly, it will be impossible for  
 further supplies to be guaranteed

1. Fold them flat and tie together with string. (Paper wrapping unnecessary.) Send parcel post. Tuck in flaps where necessary, to keep size within postal regulations. Pack smaller containers inside larger ones. (Four to seven average size containers approximate size allowed.)

2. Use addressed labels received with invoices. Enter cost of postage on Postal Receipt portion of label (which must be date-stamped by Post Office). Detach this Receipt portion and keep it.

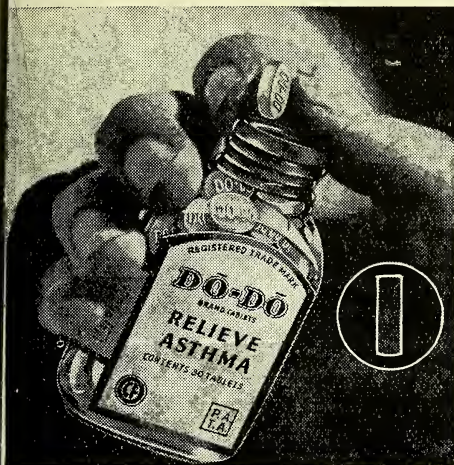
3. Postage will be refunded only by our representative when he calls, on surrender of Receipt. This Receipt cannot be accepted for direct credit, and must not be deducted from account.

**WHY?** Because we simply cannot get the cardboard to make enough new containers. The end of war in Europe has not put an end to the cardboard shortage. On the contrary. More products are being manufactured now than during the war and the demand for board is greater than ever. Existing containers must be emptied and returned immediately for refilling in order to keep your supply lines open.

*Follow the simple directions opposite.*

**MACLEANS LTD., GREAT WEST ROAD, BRENTFORD, MIDD.** 'Phone: Ealing 6616. Wires: Macleans, Brentford





# ASTHMA



## One Dō-Dō

*will often ensure a complete night's sleep . . . . .*

7 TABLETS 1s. 1½d. - 30 TABLETS 3s. 4½d. INCLUSIVE

INTERNATIONAL LABORATORIES LTD., CHARLBURY, OXFORD

FOR

## SUNBURN

BITES—STINGS—CUTS—WOUNDS

and various irritable skin disorders.

An Established Pharmaceutical Product

ANÆSTHETIC **A-A** ANTISEPTIC

## OINTMENT

Contains : Ethyl-para-aminobenz.—Zinc. Oxide  
—Resorcinol—Potass. Oxyquinolin.  
Sulph.—in an Emollient Base.

ANÆSTHETIC to soothe PAIN and IRRITATION  
ANTISEPTICS to prevent INFECTION  
ASTRINGENT & EMOLLIENT

to promote HEALING

Retail 2/6d. per 2 oz. jar plus 3d. P.T.



Write for Special Terms

**DAMANCY & CO. LTD.**  
HARROW, MIDDLESEX

Te.: Byron 1440. Grams : Damancy, Harrow

FOR

## ARTHRITIS

PARTICULARLY THE  
INFECTIVE TYPES

**"S.B.T."**

BRAND

**STERILISED  
SOLUTION**



### NEW PRICES :

	10 c.c.	60 c.c.
Retail Price -	12/5 each	61/8 each, inc. Tax
Net Medical Price -	11/3 each	56/2 each, inc. Tax
Retail Chemists -	90/- doz.	444/- doz. Tax extra



Medical Literature available



**C. J. HEWLETT & SON, LTD.**  
35/43 Charlotte Road, LONDON, E.C.2



# National Advertising for **VEET** Liquid Deodorant

This latest anti-perspirant is a worthy companion product to the world-famous Veet Hair-Removing Cream. The trade-mark 'VEET' is a guarantee of quality and acceptance by the public. Supplies are not restricted.

RETAIL:  
**10 $\frac{1}{2}$ d.**  
(including tax).

## Now appearing in:

Daily Herald  
Daily Mail  
Daily Mirror  
Daily Sketch  
News Chronicle  
Empire News  
News of the World  
People  
Sunday Chronicle  
Sunday Graphic  
Sunday Pictorial  
Home Chat

Home Notes  
Woman's Own  
Woman's Illustrated  
Woman's Pictorial  
Woman's Weekly  
Woman's World and  
Home Companion  
Woman's Friend  
Good Housekeeping  
Good Taste  
Weldon's Ladies'  
Journal

### Terms

To trade, 6/- per doz. Purchase Tax,  
2/- per doz. 5% Discount for Cash with  
order. Minimum carriage paid 3 doz.

Send cheque for £1. 3s. 1d. for a 3 doz. order.

DAE HEALTH LABORATORIES LTD., 26, BERNERS ST., LONDON, W.1.



# CARNEGIES

*of*

**WELWYN GARDEN CITY**

ALOIN . ATROPINE & SALTS  
BARBITONE SOLUBLE . BISMUTH SALTS  
CAFFEINE SALTS . CHRYSAROBIN  
CITRATES . EPHEDRINE & SALTS  
ESERINE & SALTS . IODIDES  
LITHIUM SALTS . MERCUROCHROME  
NICOTINIC ACID  
PODOPHYLLIN RESIN  
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SALICYLATES . SANTONIN  
SPARTEINE SULPHATE  
STILBOESTROL . STRYCHNINE & SALTS  
THEOBROMINE SALTS . ETC.

●  
QUININE & SALTS . TOTAQUINE  
●

**CARNEGIE** CHEMICALS (WELWYN) **LTD**  
QUININE WORKS

**WELWYN GARDEN CITY**  
HERTFORDSHIRE





SCIENCE WITH PRACTICE

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## *Galenicals*—Just as over 100 years ago

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FOR TABLETS  
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—  
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PRESS**  
—  
OUTPUT  
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COMPACTS  
PER DAY




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COPPER  
COATING  
PAN**  
—  
STANDARD  
SIZE  
30" DIAM.



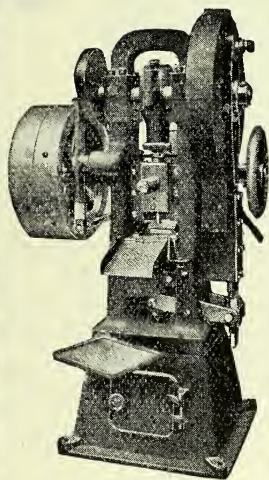
**MANESTY  
B.B.3  
ROTARY  
TABLET  
MACHINE**  
—  
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PER MIN.  
—  
TABLETS UP TO  $\frac{1}{2}$ " DIAM.



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TABLET  
MACHINE**  
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PER MIN.  
—  
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R.S.1  
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MACHINE**  
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TABLET  
MACHINE**  
—  
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PER MIN.  
—  
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D3  
ROTARY  
TABLET  
MACHINE**  
—  
OUTPUT  
300-350  
PER MIN.  
—  
FOR TABLETS UP TO  $\frac{1}{2}$ " DIAM.



**MANESTY  
N3  
TABLET  
MACHINE**  
—  
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30-400  
PER MIN.  
—  
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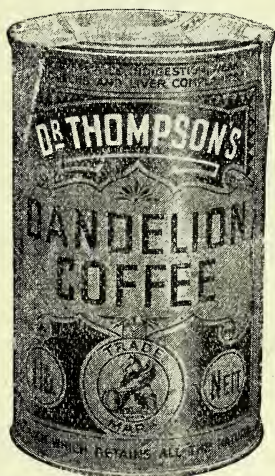
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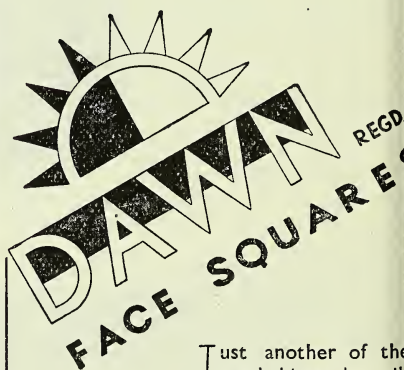
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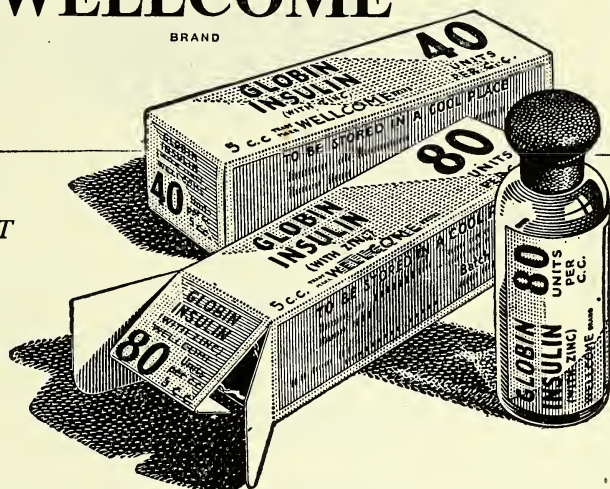
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## NEWS OF THE WEEK

**Company Law Reform.**—A report has been issued by the Committee on Company Law Amendment and published as a White Paper.

**Remittances of Money to Italy.**—The Treasury announces that remittances may now be made from this country to the whole of Italy with the exception of the district of Venezia Giulia.

**Hints to Business Men.**—An additional pamphlet has been issued by the Department of Overseas Trade in the series "Hints to Business Men." It relates to Sweden. Copies may be obtained on application to the Department at Hawkins House, Dolphin Square, London, S.W.1.

**Statutory Committee.**—The Statutory Committee of the Pharmaceutical Society will meet at 36 York Place, Edinburgh, at 11 a.m. on July 25, to consider information and evidence from which it appears that a member of the Society was convicted of an offence under the Excise Permit Act, 1832, and Spirits Act, 1880.

**Postal Packets to Sweden.**—In addition to the postal services to Sweden listed in the C. & D., July 7, p. 1, packets weighing up to 4 lb. are accepted for transmission by surface mail. The special service to Sweden organised by the Ministry of Information is discontinued.

**Licences for Anti-freeze Discontinued.**—The Ministry of Supply has made the Control of Engine, etc., Anti-freeze (No. 3) (Revocation) Order, 1945, revoking the Control of Engine, etc., Anti-freeze Order (No. 1) of 1942 and (No. 2) of 1944. The Order came into force on July 16. Under it licences are no longer necessary for production, disposal and acquisition of anti-freeze material.

**Air Mail to Czechoslovakia.**—A postal service to Czechoslovakia, now in operation, is limited to air-mail letters and letter packets up to 2 oz. in weight and postcards. Air transmission is assured only to the extent that aircraft capacity is available after military priority requirements are met. Business and financial communications

are restricted to ascertaining facts and exchanging information preparatory to resumption of trade so soon as conditions permit. Packets containing newspapers, printed matter, etc., up to 2 oz., are admissible by air mail but cannot be dispatched without a censorship permit. The air postage rates are: Letters and packets not exceeding 1 oz., 5d.; 1-2 oz., 8d.; postcards, 2½d. Correspondence is not accepted for registration, insurance or express delivery. No money order or parcel post service is available.

**Demand for Factories in Scotland.**—Hillington Estate, Glasgow, favoured pre-war by many firms in industry as a suitable centre for the establishment of light industries, has now so long a waiting list that four more trading estates are being established on the same unit system. Three are in Lanarkshire and a fourth at Newhouse.

**Association of British Chemical Manufacturers.**—The council of the Association, at its July meeting, appointed Mr. J. Davidson Pratt, O.B.E., M.A., B.Sc., F.R.I.C., M.I.Chem.E. (previously general manager and secretary), as director and secretary. Messrs. R. Murdin Drake, O.B.E., M.Sc., and Allan J. Holden, B.Sc., F.R.I.C., who during the last five years have been assistant managers, have been appointed joint managers of the Association.

**Contact with Scandinavian Scientists.**—A visit to Denmark and Norway has recently been made by Professor A. V. Hill on behalf of the Royal Society. Professor Hill took with him the greetings of the Society to the academies of the two countries, together with copies of all publications of the Royal Society since 1940 and sums of money from a fund founded in memory of Sir Horace Darwin, and now donated to be spent in the acquisition of scientific instruments.

**Medical Museum Donation.**—At a meeting on July 12, the Council of the Royal College of Surgeons accepted a gift by the Wellcome Trustees of £80,000 towards the cost of extending the museum accommodation of the Royal College. It was decided to name one wing of the new building the Sir Henry Wellcome wing. In a letter from the chairman of the Trustees it was pointed out that Sir Henry Wellcome was an honorary Fellow of the Royal College of Surgeons.

**Packaging for the Tropics.**—At the request of the Anglo-American Packaging Committee of the Ministry of Production, the British Standards Institution has prepared and published a tropical packaging supple-

ment to the British Standard Packaging Code. It is called Supplement No. 2 to B.S. 1133; a section of the supplement deals with medical and photographic equipment.

**Equipment Auctioned for Hospital.**—On the closing down recently of the Corporation of London Central Shelter Sick Bay, situated in the basement of No. 66 Cheapside, its medical equipment was disposed of for the benefit of St. Bartholomew's Hospital. The equipment had been in the first instance generously provided, free of all cost, by Evans Sons Lescher & Webb, Ltd. The whole equipment, comprising surgical instruments and sundries, and a certain amount of furniture, was disposed of at a private auction sale, which was attended by friends of the hospital, the result being that a sum of approximately £260 was made available for the funds of St. Bartholomew's.

**London Pharmacy Degree Results.**—The following were successful in the 1945 examinations for the London University Degree of Bachelor of Pharmacy: *External*, Cyril F. Abbott; Stewart S. Adams; Arnold Axon; Robert C. Carpenter; Harold W. Fowler; Roland Hardman; Joyce R. Hayter; William B. Hugo; Lewis J. E. Jones; Derek B. Lister; Patricia E. Locke; Douglas Metcalf; Joyce M. Page; John E. Pearson; Joan M. Rhodes; Hazel M. Searle; Clifford E. Willis; Eric C. Wilmshurst. *Internal*, William W. Binns; Alan Briggs; Alec L. Brown; Clarence L. J. Coles; Audrey H. Davies; Eva M. Dickinson; Nysyn Langwald; Pamela V. Reynolds.

**South-east London Officers.**—The South-east London Chemists' Association held its thirty-third annual meeting on July 3, when the following officers were elected: Mr. R. C. Archer, *President* (re-elected); Mr. W. D. Gilman, *Vice-president*; Mr. E. Richardson, *Treasurer*; Mr. W. C. Spooner, *Financial Secretary*; Mr. F. H. Wallom, *General Secretary*, 137 Lewisham Way, New Cross, London, S.E.14. Mr. Archer said that the South-eastern district had received most of the enemy air activity, so attendance had been consequently low. He now hoped that the Association would go ahead again, and he looked forward to a year full of activity. The delegates to the Joint Conference on a Pharmaceutical Service gave their report, and all present agreed with the principles laid down, but pressed for a Pharmacy Board consisting entirely of chemists.

## TOPICAL REFLECTIONS

### Mobilisation for Export

Two words in your pointed editorial article "Exports the First Need" (p. 42) took on a significant emphasis in my mind when I read them—the words "ruthlessly mobilised." The context refers to the total war production to which the country was committed in 1940, and makes the deduction that equally decisive action in obtaining the primary conditions of prosperity is necessary now. But for the fact that this is a matter of concern to every man, woman and child in the United Kingdom I should not have made any addition to what you have so forcibly stated. Let us consider in simple terms how the case stands. In order to pay its way, the country must export to an increased extent. In order to export, manufacturers must have the requisite material for manufacturing. To these two self-evident propositions may be added a third: in order to manufacture, official controls must be relaxed with the utmost practicable speed. The good ship Export, lying in dry dock in the region of Whitehall, may find that numerous barnacles bred in that quarter need scraping off: I can only hope that the process will be as ruthless as was the mobilisation to which your article refers. The fact that you have been receiving for some weeks past "a steadily increasing flow of inquiry from Empire and foreign buyers" for various kinds of goods illustrates the urgency of the situation. This is so essentially national a question that bodies of the widest scope, such as the Federation of British Industries, are best qualified to bring pressure to bear where it will be effectual.

### Modern Dispensing

The opening article of a series on advances in dispensing (p. 48) gives promise of a valuable survey. As the writer mentions, what may be called optimal dispensing was the subject of a symposium in your issue of March 25, 1944. That, as I indicated a week later, was one of the best things of the kind I have ever read. The replies to the questions circulated by you were sufficiently numerous to represent a cross-section of British pharmacy, and the fact that on some points opinions differed was all to the good. Your contributor in last week's issue cites a report in the "Journal of the American Medical Association" exploring the inability of the average medical practitioner in the United States to write prescriptions, and blaming teachers

for recommending "complex mixtures." Elaboration in prescribing is so contrary to present-day ideas that one would have thought the shot-gun type of prescription obsolete. On the question whether waiting-rooms are necessary in pharmacies, your author is of opinion that they should in most cases be unnecessary. I sincerely hope so. To state only one objection, the provision of such a room would probably involve in many, perhaps in most, districts an extensive sweeping up of paper bags, nutshells and other *disjecta membra* at the end of the day. The number of customers waiting for medicine in a shop at any one time is normally limited by the fact that at busy periods the wait for each customer would be so lengthy that he or she must call again or make a special arrangement. With the writer's caution against piling up stocks above dispensary shelves I fully agree. Anything calculated to harbour dust in that region is intolerable; moreover, the public can usually see all the top features of a shop, and in the case indicated would no doubt draw an unfavourable conclusion.

### Favoured Scientists

Your brief report of the impressions of British scientists about their recent visit to Russia (p. 28) reinforces the view that co-operation with Soviet scientists is not merely possible but is necessary. In "The Times" of July 14, I read an amusing reference by Professor E. K. Rideal, president of the Society of Chemical Industry, to the respect paid to men of science in the Soviet Union. "It seemed that if one was the equivalent of a F.R.S. in Russia, he could get four rooms and many times the rations of the ordinary civilian. If he were merely a professor of science he could get two rooms and several times the rations." Our legislators might well follow the lead of the Soviet authorities by recognising scientific eminence in some such manner. During the present housing shortage, discrimination along these lines would create a type of aristocrat not hitherto known here. Chairmen of the British Pharmaceutical Conference, who are usually learned men, might each receive a substantial dwelling-house with three acres and a cow or the equivalent; while presidents of the Pharmaceutical Society, who are traditionally not quite so learned, might each have to be content with a modest cottage or a "flat-let."

**Xrayser**



## COMPANY NEWS

**WOODLANDS WAX PRODUCTS, LTD. (P.C.).**—Capital £500. Manufacturers of and dealers in wax polishes, brushes, etc. Stanley Freeman Thompson, director. R.O.: 110 Fenchurch Street, London, E.C.3.

**F. B. CHALMERS (CHEMISTS), LTD. (P.C.).**—Capital £10,000. Chemists, druggists, etc. Franklin B. Chalmers, M.P.S., and Harold W. Woodward, M.P.S., directors. R.O.: 7 Windsor Road, Griffithstown, Monmouthshire.

**PESTICIDE (D.D.T.), LTD. (P.C.).**—Capital £5,000. Manufacturers of and dealers in insecticides, vermin destroyers, etc. Major W. J. L. Williams and David Hayman, directors. R.O.: 11 Jubilee Place, King's Road, London, S.W.3.

**BUREAU OF ABSTRACTS.**—Limited by guarantee without share capital. Objects: To take over the operations of the unincorporated Bureau of Chemical and Physiological Abstracts, founded in 1923; to act as a central bureau by the study, collation and dissemination by abstracts, indexes and records of chemical, physiological, medical, engineering, scientific and technological books, papers, brochures, patent specifications, etc. George M. Bennett, Frederick P. Dunn, Edwin B. Hughes and Ernest H. Rodd (appointed by the Chemical Society); Julian L. Baker, Herbert W. Cremer, Louis A. Jordan and Leslie H. Lampitt (appointed by the Society of Chemical Industry); Bryan A. McSwiney and Samson Wright (appointed by the Physiological Society of Great Britain and Ireland); and Frank G. Young (appointed by the Biochemical Society). R.O.: 6 Burlington Gardens, London, W.1.

**ALLEN & NEALE (CHEMISTS), LTD.,** King's Lynn.—Mr. F. C. Bentley, M.P.S., has been appointed managing director.

**A. & F. PEARLS, LTD.**—Profit for the year 1944 amounted to £134,687. Dividend on the ordinary shares has been set at 15 per cent., tax-free.

**GEORGE HULL, LTD.,** wholesale drysalts, Birmingham.—Mr. Harry H. Sewell has been appointed managing director. Mr. Sewell has been with the company for forty-four years.

**SANGERS, LTD.**—Profit for eleven months ended March 31 amounts to £224,590, against £272,779 in the previous year. A final dividend of 15 per cent. has been declared, making 25 per cent. (same).

**EVANS SONS LESCHER & WEBB, LTD.**—Directors' report for year ended December 31, 1944, records a net profit of £22,917, to which is added balance brought forward from 1943 (£12,938), leaving available £35,855, which the directors propose to apply as follows: Transfer to reserve £7,500; 6.512 per cent. dividend on cumulative participating preference shares for year ended December 31, 1944, £7,873 8 per cent. dividend on ordinary shares £4,948; carried forward, £15,534. Messrs C. E. J. Sendall and C. E. M. Andersen offer themselves for re-election to the board.

## LEGAL REPORTS

**Theft of Soft Paraffin.**—At Leeds, on June 23, John Douglas Whittaker, White lock Street, assistant manager for a firm of transport contractors, was charged with stealing two drums containing 8 cwt. of soft paraffin belonging to his employers. Abraham Swerski, Chapeltown, and Victor Hutter, Roundhay Road, were charged with receiving the paraffin, knowing it to have been stolen. All were remanded on bail.

**Powder Puffs Without Licence.**—At Bow Street, London, police court, on July 12 Isaac Jack Levinson, described as an Army deserter, was sentenced to two years imprisonment and ordered to pay fine totalling £24,074 for manufacturing sheep skin powder puffs (as handkerchiefs and containers) without a licence from the Board of Trade. The puffs were stated to have been made at Elgin Avenue, Maid Vale, and Southwick Mews, Paddington. There were also charges of supplying them without coupons and fraudulently evading purchase tax. Guy Anthony Croxford, aged twenty-three, Oxford Gardens, Kensington employed by him as selling agent, was sentenced to eighteen months' imprisonment and fined a total of £5,689 for aiding and abetting, and being illegally in possession of 1,043 clothing coupons. Goods seized by the police were ordered to be confiscated. Levinson was also sentenced to six months' imprisonment, to run concurrently, for stealing by finding another soldier's certificate of discharge from the Army. It was said that, since deserting from the Army in 1942, Levinson's illicit trading had reached a turnover of £11,684. A detective sergeant said that Levinson had twice before been arrested for the offences but had been released on producing the stolen discharge certificate.

## TRADE NOTES

**Patented Inhaler.**—The apparatus described under the title "Novel Inhaler" *C. & D.*, July 7, p. 8), and introduced by Moore Medicinal Products, Ltd., 7 Bon Accord Square, Aberdeen, has been patented, and is being marketed under the registered trade name Deedon.

**Agencies in India.**—Applications are invited by Calcutta Essence Supply Co., Mulchand Mansion, Princess Street, Bombay, 2, India, from manufacturers in this country of essences, essential oils, aromatic chemicals, etc., who are desirous of appointing an agent in India for the sale and distribution of their products.

**Container Request.**—Macleans, Ltd., Great West Road, Brentford, Middlesex, issue a warning to chemists that unless Macleans cardboard containers are promptly returned they will be unable to guarantee further supplies of their preparations. Instructions on how to fold and dispatch the empty containers are given in an announcement in this issue.

**New British Ventures.**—Ashe Laboratories, Ltd., 120 Victoria Street, London, S.W.1, announce that they are now, for the first time in this country, able to offer supplies of biotin, in the form of ampoules containing 25 micrograms in one c.c. of sterile distilled water. They are also advertising for human hair sweepings and clippings for the purpose of cystine manufacture.

**Holiday Closing.**—C. R. CROSSKILL & SONS, Calvert Works, Norwich, state that their works will be closed from August 4 to 13, and not as previously announced.—The works of the WINCHESTER MANUFACTURING CO., LTD., surgical rubber manufacturers, 21 The Square, Isleworth, Middlesex, will be closed from August 4 until August 13.—The premises of CLINICAL PRODUCTS, LTD., Richmond, Surrey, will be closed from July 27 to August 7.

**P.A.T.A. Price List.**—The 1945-46 edition of the protected list and year-book of the Proprietary Articles Trade Association is now available. The year-book gives the annual report of the Association for 1943, members of the Council for 1945, a list of firms controlling articles included in the protected list, and of members of the wholesale section, and the basic retail, standard wholesale and inclusive retail prices of the listed specialities.

**Tenth Anniversary of Branded Vitamin.**—To celebrate the completion of ten years of marketing Redoxon vitamin C, Roche Products, Ltd., have brought out a booklet entitled "Ten Years of Redoxon Vitamin C, 1934-44." The booklet, which comprises twenty-four pages of illustrations and text, covers the clinical indications, chemistry and history of vitamin C, and gives details of the packings and doses of the company's product. A copy will be sent to any chemist who sends in a penny stamp to comply with the paper regulations.

**Enzymic Protein Hydrolysate.**—A palatable form of enzymic protein hydrolysate has been produced by the joint enterprise of Genatosan, Ltd., Loughborough, and Bengers, Ltd., Holmes Chapel, Cheshire. Until recently, the bulk of the preparation has been used for famine treatment, but now ample supplies are available for conditions of amino-acid deficiency, whether due to lack of protein, metabolic disturbance or failure, such as the abnormal loss of protein through the kidneys, or extensive burns. The use of protein hydrolysate before and after operative procedure involving the metabolic tract offers a method of alimentation that avoids the use of solid food. Normally protein hydrolysate is administered orally in solution, with three times its weight of glucose, specially reinforced with vitamins B and C. A booklet dealing with the indications and methods of application for protein hydrolysates is available from the issuing firms.

### Business Changes

MR. J. W. H. DEW, F.R.S.A., chemical manufacturer, has removed to 53 Marloes Road, Kensington, London, W.8.

ALLIED LABORATORIES, LTD., Park Lane, London, W.1, have centralised the distribution of their products under the direct control of the company. The step has been taken to ensure closer co-operation with retailers in view of the rapidly expanding demand for the company's preparations.

**RETAIL LICENCE APPLICATION.**—Alexander Fairbairn and W. H. Govan (trading as Richardson & Son) to reopen, at 214 Smith-down Road, Liverpool, 15, a business in drugs and medicines, medicinal and surgical appliances, etc., carried on at that address by Richardson & Son during the period December 1, 1940, to October 23, 1941.



## TRADE VISITORS

MR. ADEDAPO ALFREDS, Alban Pharmacy, 2 Victoria Street, Lagos, Nigeria, will be visiting the United Kingdom shortly to contact manufacturers and drug-trade exporters.

MR. LEWIS B. FEENEY (Drogueria Franco-Inglesa, Riva Davia 2567-73, Buenos Aires, Argentina) is at present visiting this country to contact British manufacturers and develop the export of pharmaceutical products and drug-trade goods to the Argentine. Mr. Feeny's address while in Britain is Savoy Hotel, London, W.C.2.

MR. MARK LIPWORTH (chairman, Alex. Lipworth, Ltd., wholesale chemists and druggists, Johannesburg, South Africa) is in England visiting the principals of the various companies represented by his company, and making contacts with British manufacturers who desire to introduce their products to the South African market. In an interview Mr. Lipworth expressed the opinion that "unless immediate steps are taken to encourage exports to South Africa, Great Britain will lose this valuable market." Mr. Lipworth's address while in England is c/o the Anglo-African Shipping Co. (S.A.), Ltd., 1 Throgmorton Street, London, E.C.2.

## PERSONALITIES

MR. H. P. HUTCHENS, M.P.S., 55 High Street, King's Lynn, has retired after forty years' service with Allen & Neale (Chemists), Ltd.

PROFESSOR HERMANN LEVY contributed a letter to "The Times" on July 9, in which he urged preventive action to forestall cartelisation in the quinine industry.

MR. CHARLES MACKAY, proprietor of the old-established business of Mackay & Son, chemists, Forster Square, Bradford, has retired. Mr. Mackay's father, the late Mr. Edward Mackay, first president of the Bradford and District Chemists' Association, acquired the business in 1878, and Mr. Charles Mackay has been sole proprietor since 1916.

MR. WALTER C. TATE, Ph.C. (proprietor of Tate's Medical Hall, Royal Avenue, Belfast), was invested with the chain of office as president of Belfast Rotary Club on July 2. The ceremony was carried out by the outgoing president (Mr. F. W. Purdy). Mr. Tate is a past-president of the Pharmaceutical Society of Northern Ireland, a member of Council, and a member of the Executive, Ulster Chemists' Association.

## U.S. FATS POSITION

THE United States Republican Congressional Food Supply Study Committee, a Republican-sponsored private committee investigating food shortages, submitted on June 20 a report on the fats position. The report makes the following points:—

A serious and critical situation with reference to fats and oils is now facing the American people. Fats and oils include such everyday commodities as lard, butter, shortening, soap, and many other household products. . . . The Department of Agriculture admits that there will be no relief from this intolerable situation until the late spring or summer of 1946. . . . The principal domestic sources of edible fats and oils have been lard, butter, cottonseed oil and peanut oil. Since the beginning of the war, soya-bean production has been stepped up many times to provide a substitute, but the yield has not been sufficient to make up the deficiency. Tallow has been used for both edible and non-edible purposes.

In normal times, the United States has been a net importing nation of fats and oils. Because the South Pacific supplies of copra, with the exception of a small amount from Ceylon, were cut off at the outset of the war, the country has been called upon to supply the United Nations with these highly important commodities. Russia and the whole of Europe, according to reports reaching the Republican Congressional Food Study Committee, are undergoing a most critical shortage, and the United States is expected to secure and deliver fats, oils and soap badly needed to combat disease. Because the Federal food authorities failed at the outset, in the Committee's view, to co-ordinate domestic policy in building up supplies from every possible source, U.S. own stocks have been depleted to a low level in trying to meet foreign demands. Officials continue to commit the U.S. to furnish fats and oils, making the domestic situation still worse. According to Department of Agriculture statistics, butter production in 1945 will be about 23 per cent. less than in 1941; lard production, while about the same as 1941, will be 28 per cent. less than in 1944; edible tallow will be 16 per cent. less than in 1941; cottonseed oil 6 per cent. less; olive oil 50 per cent. less; and peanut oil will be 40 per cent. less than in 1941. Only corn oil and soya-bean oil will show increases over 1941, the former 11 per cent. and the latter 113 per cent.



## DEATHS

**BLACKBURN.**—At Arncliffe, Half Edge, Eccles, on July 12, Mr. Albert Ward Blackburn, Ph.C., aged eighty-two. Blackburn served his apprenticeship Mottershead & Co., 7 Exchange Street, Manchester, with which firm his name has been long associated. He qualified as a pharmaceutical chemist in 1893, and in 1893 took over the business. The owners (Messrs. Benger and Paine) formed a company to develop Benger's and the other Benger specialities, and Blackburn assisted in this development as director of the company. Under his control Mottershead & Co. became one of the leading pharmaceutical businesses in Manchester, and in 1939 he converted it to a limited company. He was well known for his work in connexion with hospitals in Manchester and Salford. He was honorary pharmacist to the Manchester Royal Infirmary, Salford Royal, St. Mary's and Eccles Bericraft hospitals. He served on the governing committee of the Manchester and Salford Medical Charities, and was vice-president of the Manchester Chamber of Commerce. For many years he was a member of the Council of the Manchester Pharmaceutical Association, and he had also filled the office of vice-president. The funeral service took place at St. Paul's Church, Kersal, on July 14. In addition to the staff of the company, pharmacy was represented by Messrs. A. Ashcroft, W. E. Phillipson (Child of Public Pharmacists) and T. Miller (Manchester Association and Branch).

**CARR.**—On June 27, Mr. Percy Carr, Ph.C., 87 Ecclesall Road, Sheffield, aged eighty-three.

**COUPLAND.**—Mr. E. V. Thomas (general manager, Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, writes:—  
I feel sure his many friends would appreciate the slight amplification of the information contained in your obituary notice of Henry S. Coupland (see *C. & D.*, June 23, p. 636). Born of humble parents in a Lincolnshire village, Henry Coupland was educated at Queen Elizabeth Grammar School, Alford. He was apprenticed to Mr. Harold Wyatt, Liverpool, from the passing his Minor examination in 1893. After spending a short time with Squire & Sons, Oxford Street, London, he passed the Minor examination in 1897, and the following year was appointed laboratory manager to Wilkinson, Clark & Ward, Whitecross Street, London, where he stayed for eight years. At this stage in his career he took his B.Sc., London, degree, and joined Brady & Martin, Newcastle-Tyne, as manager of their laboratory, eventually becoming an assistant director. In

1916 he was appointed consultant chemist to the War Office, and, on being demobilised, joined May & Baker, Ltd., where he remained until he retired at the age of seventy. In his work with Messrs. May & Baker, as in all previous appointments he held, Henry Coupland proved to be an unqualified success. His keenness for his work, his conscientiousness in all he undertook, and his enthusiasm in keeping his very special knowledge up to date, were a source of inspiration to all those with whom he came in contact. Henry Coupland's death at the age of seventy-four has removed from the ranks of the profession a distinguished person whose charm of manner, sympathetic nature, and unflinching courtesy and modesty gained him the esteem and affection of all who knew him.

**HARDY.**—At Torquay, suddenly, on July 14, Mr. Charles T. Hardy, a director of Arthur Berton, Ltd., 256 Old Street, London, E.C.1. Mr. Hardy retired from active directorship in 1943, owing to ill-health, after twenty-three years as sales director.

**HUGHES.**—On June 24, Mr. Joshua Arthur Hughes, Ph.C., Abercarn, Monmouthshire, aged seventy-four.

**SMITH.**—At 7 Kirklee Quadrant, Glasgow, W.2, on July 8, Mr. James Hunter Smith, M.P.S., 8 Glassford Street, Glasgow. Mr. Smith qualified in 1903.

## WILLS

**MR. DENNIS WILLIAM ANDREW DESMOND**, M.P.S., 57 Warwick Road, Bishop's Stortford, Herts, and 55 Freemasons Road, London, E.16, left £28,452, with net personalty £27,401.

**MR. FREDERICK ARTHUR FLINT**, Buntingford, Park Hill Road, Otford, near Sevenoaks, Kent, formerly a director of the British Essence Co., Ltd., left £4,975, with net personalty £3,496.

**MR. DOUGLAS ARCHIBALD MACCALLUM**, F.R.I.C., F.C.S., 95 Fotheringhay Road, Glasgow, a past-president of the Society of Chemical Industry, left personal estate in Great Britain valued at £1,216.

**MR. ERNEST HAROLD ELLIS**, 47 Blenheim Chase, Leigh-on-Sea, Essex, formerly secretary of the General Apothecaries' Co., Ltd., London, who died on March 17, left £1,092, with net personalty £534.

**MISS CATHERINE CARRON SIME**, M.P.S., the Congregational Manse, Hallgate, Cottingham, Yorks (a manager for Selles Dispensing Chemists, Ltd., for fifteen years), left £5,032, with net personalty £4,907.

## NORTH BRITISH BRANCH ANNUAL MEETING

THE annual meeting of members of the Pharmaceutical Society resident in Scotland was held in Edinburgh on June 27, Mr. John Anderson in the chair.

### Chairman's Statement

THE CHAIRMAN said he had attended the annual meeting of the Society in London. He found that they suffered in England, as in Scotland, from lack of interest on the part of members. It was proper to recognise that they were meeting that year under much happier conditions than a year earlier. The cessation of actual fighting in Europe had hastened the termination of the nightmare years, and they in Scotland recognised that their English brethren had had a much worse time. It was right that they should take note of the part that pharmacy and pharmacists had played throughout the war years, and were still playing. Even those who were not in uniform but in overalls had no reason to be ashamed of the part they had taken. Advancing years, diminishing stocks and reduced staffs had not made things easier, but they had managed to discharge what was, after all, their primary duty as pharmacists, that is, they had kept faith with the public and kept an adequate pharmaceutical service going. Out of the approximate 5,000 pharmacists serving in the Forces in one capacity or another Scotland had given a fair quota. He personally, and possibly some of the rest, had had opportunities of welcoming repatriated prisoners, and it was good to know that through the War Aid Fund, by means of a regular supply of parcels and books, they were able to lessen the tedium endured by such prisoners. They must not forget that in the approximate number of casualties—some 150—there were members from their own branches—young men for whom there would be no "September shadows." They must not be forgotten, and he would deem it a worth-while gesture if, at the proper time, some simple token could be installed in that Scottish home of pharmacy to remind them of those men.

Points that came up at the previous annual meeting had been considered, but it had been deemed inadvisable to take any action in connexion with them.

The Scottish Central War Committee had carried through a tremendous amount of work. They had also got through a great deal of work in connexion with the health services, and members of the Scot-

tish Committee who had acted as liaisons officers had been in London frequently. The Bill was not yet before the House but when they saw the structure of the Bill he was sure that very much would be gained for pharmacy.

### Scottish Position Not Appreciated

MR. TEESDALE said he would like to raise one or two questions. The matter interested them most at the present time was the National Health Service. He had received the Scottish note on the War Paper in September, and in Edinburgh Mr. Linstead and Mr. Wells had addressed branch meetings. Both of these gentlemen seemed reluctant to discuss remuneration and to think that England would be pleased with the present Scottish rates. They appeared to lack knowledge of and to fail to appreciate the position of pharmacy in Scotland. He would like an assurance that they were not letting the national committee get away with this attitude. He would like to know what the findings of the Committees were on the question of remuneration and terms of service.

THE CHAIRMAN said he thought Mr. Teesdale had come to a wrong conclusion in regard to Mr. Linstead and Mr. Wells. He could assure Mr. Teesdale that the Scottish Committee was keeping a careful eye on all the proceedings. Nothing more could be done about remuneration until the Bill came before the House. There was a question of slavishly following England's lead. Neither would they dare to ask the Scottish colleagues to maintain the *status quo* when coming into changed conditions where private dispensing would be automatically transferred to insurance. He agreed with Mr. Teesdale that English pharmacists were not quite conversant with conditions in Scotland, but the Scottish committee would see to it that the remuneration would be something that would be acceptable to Scottish chemists in general. The line of approach had yet been considered, but the matter was in the hands of men who were not without ability and who were not unaccustomed to dealing with Government departments.

### Subcommittee's Findings Demanded

MR. TEESDALE then asked the chairman if he could give a summary of the findings of the subcommittee of the Executive Committee pointed to consider the Committee



Secretary's report, as nothing had been said of this.

THE CHAIRMAN said that he must admit the committee had done little during the past session. This was due to the fact that they were struggling along through war years, and had really more important matters to take up their attention. Teesdale could rest assured that the matter was not lost sight of.

R. TEESDALE said he had, at previous annual meetings, elaborated points about the time or place of meeting which he thought would encourage members to attend. He thought the Executive should appoint a subcommittee to consider ways and means of securing a better attendance. He had also suggested that a Scottish Branch Representatives' meeting should be held, in conjunction with the annual meeting, which would enable them to discuss "sub-peculiar to Scotland."

#### Look for the Future

THE CHAIRMAN said they had sympathetically considered Mr. Teesdale's suggestion of change of hour. It had been decided, however, that in the South an afternoon meeting had been tried with no success, and they had reverted to the afternoon meeting. When they had reached the normal times, with better travelling facilities, they might reconsider the question not only of where but when to hold an annual meeting. The suggestion of a Scottish Branch Representatives' meeting, though, was a good one and would be in a note of for the future.

R. TEESDALE asked whether the Executive was in agreement with the opinion expressed in the provisional statement on the services to the effect that a member doing only the chemist and druggist qualification was not able to perform the duties of a pharmacist in a hospital or in the centre. He did not think it was a correct statement. There was considerable discussion on this point, Dr. Tait and Messrs. Jack, McDonald and Meldrum taking part.

THE CHAIRMAN said he hoped more young people would, like Mr. Teesdale, take an interest in pharmaceutical matters. He did not see why Mr. Teesdale should not bring some of his *confrères* into the ranks and fire them with the enthusiasm which he had for pharmacy.

#### Volunteers' Report

Three thousand and sixty-one nomination papers were issued by the resident

secretary on May 11. The nomination papers returned showed that forty-five members had been nominated, of whom a total of thirty-four signified their willingness to act if elected. These were Messrs. John Anderson, Dundee; John Melvin Anderson, Glasgow; Frederick Baillie, Glasgow; William Andrew Beattie, Edinburgh; Frederick W. Moncrieff Bennett, Arbroath; Charles Alexander Buick, Port Glasgow; Colin Campbell, Glasgow; Charles Coutts, Aberdeen; Robert James Cowie, Aberdeen; Hugh Spence Culbert, Dumfries; William Spence Culbert, Airdrie; David Currie, Glasgow, N.; Charles Gray Drummond, Edinburgh; Andrew Brown Gilmour, Glasgow, W.2; Thomas Guthrie, Glasgow; James Jack, Arbroath; David Kerr, Edinburgh; George Thomas Lamb, Montrose; Robert McAdam, Glasgow, W.4; John Bayne McDonald, Perth; Alexander McIntyre McKellar, Dalmuir; Thomas McKenzie, Inverness; William Mair, Edinburgh; Elizabeth Miller, Glasgow; Thomas Campbell Miller, Dunfermline; James Robertson Milne, Dundee; Alexander Murray, Glasgow; Archibald Robertson, Hamilton; John Hunter Tainsh, Edinburgh; James Teesdale, Edinburgh; Hugh Williams Thomas, Glasgow; John Walker, Glasgow; John Weir, Glasgow; James Montgomery Williamson, Glasgow. 3050 papers were issued; 717 were returned (ten informal).

#### Result of the Poll

The following is the result of the poll:—

BENNETT, F. W. M.	425
GILMOUR, Andrew Brown	414
DRUMMOND, Charles Gray	408
ANDERSON, John	400
MACKENZIE, Thomas	400
GUTHRIE, Thomas	392
BEATTIE, William Andrew	365
CULBERT, William S.	359
COWIE, Robert James	352
MILNE, James Robertson	352
McADAM, Robert	338
LAMB, George Thomas	333
COUTTS, Charles	331
MACDONALD, John Bayne	323
MILLER, T. C.	306
MAIR, William	287
MURRAY, Alexander	277
TAINSH, John Hunter	276
CULBERT, H. S.	272
BUICK, Charles	269
CURRIE, David	259
JACK, James	250
ROBERTSON, Archibald	235
MILLER, Elizabeth	227
KERR, David	210
TEESDALE, James	199
CAMPBELL, Colin	197



WEIR, John .. .. .	183
ANDERSON, J. M. .. .. .	180
THOMAS, Hugh Williams .. .. .	179
McKELLAR, Alexander M. .. .. .	149
WILLIAMSON, James M. .. .. .	149
BAILLIE, Frederick .. .. .	146
WALKER, John .. .. .	142

THE CHAIRMAN then declared that the first eighteen of those on the above list, together with the president of the Society (Mr. J. C. Young, London), vice-president (Mr. G. R. K. Mawer, Wrexham), and Mr. Adam Alexander Meldrum, Aberdeen, as *ex-officio* members, would constitute the Executive of the North British Branch for the year 1945-46.

### Meeting of Executive

A meeting of the Executive of the Branch was held on June 27, Mr. John Anderson in the chair. THE RESIDENT SECRETARY reported that he had received a letter from Mr. Robert McAdam, tendering his resignation as secretary of the Glasgow and South-western Scottish Branch. It was agreed that all unexhausted remits should be submitted to the new Executive. THE CHAIRMAN intimated that the scrutineer report and relative papers were all in order.

On the motion of CAPTAIN ERIC KNEED, seconded by MR. TEESDALE, the report was adopted.

## BRITISH HERB CROP REPORTS

**J. W. Seymour, Ltd.**—THE PEPPERMINT is rather patchy owing to lack of rain, but with a good shower in the near future should be a reasonably good crop. DILL looks extremely well.

**Perks & Llewellyn.**—LAVENDER.—Some of the lavender is already in bloom, but most of the crop has been set back by the late frosts and will not be ready to cut for distilling for another month. There is every prospect of a good harvest.

**Bruce, Starke & Co., Ltd.**—CHAMOMILE.—This is a little late this year, but has benefited greatly by the amount of rain we have had from time to time during the past month or two. The plants are looking well and healthy, and we anticipate a first-class yield. LAVENDER.—The crop is looking well and, provided we get a fair amount of sunshine, we anticipate the yield will be at least up to normal. PEPPERMINT.—The plants are looking well and healthy. ANGELICA.—We had only a reduced acreage this season; the oil distilled, however, was of excellent quality, and showed an average yield.

**Potter & Clarke, Ltd.**—PARSLEY PIET.—Very scarce owing to the dry spring and lack of collectors. CLIVERS.—Proving very plentiful and apparently extremely healthy. DANDELION LEAVES.—Very short again owing to the lack of collectors. BURDOCK LEAVES.—Fairly good. Also NETTLES and MUGWORT. EYEBRIGHT, WOOD SANICLE and COLTSFOOT.—These crops are fairly good. COMFREY HERB.—Fairly good, but more could be collected if herb collectors were available. WOOD SAGE, AVENS and CENTAURY.—These herbs will be very scarce. MEADOWSWEET.—Appears to be plentiful this year and of good quality, but shorter

in length. AGRIMONY.—This herb looks promising, but will be short in supply owing to the ploughed-up land. MOTHERWORT, RUE, HYSSOP and SOUTHERNWOOD.—These, of course, are cultivated herbs. Those which have stood the winter are very good, but owing to the very sharp frosts during the winter months many have been killed. HOREHOUND.—Is very scarce owing to bad germination of seed. PARSLEY.—Looks very promising. MINT.—There is not any mint available this season owing to the War Agricultural Executive Committee's issuing instructions that it should be ploughed up—the suggestion being that mint is a luxury and can easily be dispensed with in war-time. SAGE.—The winter season is very scarce and gappy. The autumn season looks promising, but as seed is so scarce it will be very difficult to obtain. THYME.—A fairly good crop, but as it is a very expensive herb to grow, it will not be very plentiful this season. HAWTHORN.—Quite plentiful where not ruined by the May frosts.

**The Herb Farm, Ltd.**—CULINARY HERBS.—Owing to the plentiful rain, culinary herb crops are in excellent condition. The bad frosts caused a certain set-back at the loss of a small proportion of the plants. SAGE is still short, owing to an outbreak of verticillium two years ago, but the MARJORAM and THYME crops are particularly good. LAVENDER and CHAMOMILE look very promising, and the lavender acreage is again being gradually increased. The frost killed most of the primary flowers so that the harvest may be rather late. Drug crops are only in small lots, and mainly for seed and fresh extract purposes. A small but constant demand for out-of-the-ordinary medicinal seeds comes from overseas.

## MEDICAL ASPECTS OF BRITISH COUNCIL ACTIVITIES

A REPORT on the work of the medical department of the British Council, which celebrates this month the tenth anniversary of its inauguration, demonstrates what can be done by a live Government organisation whose object is to foster British interests abroad. For example, the department publishes its own "British Medical Bulletin," now in its third year, at approximately monthly intervals. In this publication are included original articles, abstracts, book reviews and contents lists of current British medical and cognate journals. There are editions in English, French, Spanish, Portuguese and Turkish, and it has even been found possible to reprint the English edition in Stockholm, Sweden, by sending matrices of the type. A warning is given, however, that while it is possible that new languages will ultimately be added, such additions cannot lightly be undertaken. Few not directly concerned with such work can appreciate the magnitude of the task of producing and printing a technical periodical in foreign languages. Scientific nomenclature is often unstable, and it may be necessary to make an arbitrary choice from several forms. Great vigilance is also needed to guard against errors of translation or printing.

In addition to circulating the Bulletin, the Department meets numerous requests for copies of medical papers (reprints or photostats), bibliographies, and information on a variety of medical subjects, and arranges exchanges between British and foreign medical journals and the supply of British medical books and journals to overseas medical libraries. From these services arise requests for small supplies of new drugs for research purposes, and for new or improved types of medical instruments and apparatus of British manufacture. Wherever possible the department meets these requests, obtaining samples of drugs, sometimes even before they are commercially available. In special circumstances it acts as intermediary for the purchase of equipment and apparatus by overseas medical men and institutes, and as an agent for the supply to foreign laboratories of standard bacterial cultures, sera, etc.

A start has been made on a programme of production of medical films, with commentaries in several languages, intended primarily for overseas medical audiences. A small committee views existing medical films, most of which are amateur 16-mm.

productions made by surgeons and others interested in the application of cinematography to medical teaching. Critical comments on such films are sent abroad, and in some instances requests for prints are received from foreign medical teachers. Medical visitors come to this country sometimes as the guests of the Council, and sometimes at their own expense. In both circumstances programmes are arranged for them in consultation with suitable experts and professional organisations. Visits abroad by distinguished British medical men are also sponsored by the Council. The department is a unit of the science department, and is advised by a science committee under the chairmanship of Sir Henry Dale.

## PROPRIETARIES IN FRANCE

FRENCH pharmacists have agreed to continued control of proprietary medicines. The control was instituted in the first place by the Vichy Government, and the chemists' decision is taken despite the fact that full liberty has been restored to them since the liberation. The control is exercised by a technical committee set up by the Ministry of Public Health, and having as its members several professors of medicine and pharmacy, a Government representative, and a representative of the manufacturers. New proprietary medicines are submitted to the committee for examination, with a description of the method of manufacture. If the preparation is passed by the committee it is given a number and allowed to be sold. Existing medicines are also submitted. In many instances the committee has expressed dissatisfaction and informed the manufacturer that his method of preparation must be altered or the medicine will have to be rejected. All advertisements must be submitted to the committee, which exercises a control over the wording. No medicine may claim to cure an illness; no advertisement is allowed to make claims that cannot be substantiated; and there is also a movement by certain members of the Faculty to put a stop to all advertising, except in scientific journals. This is believed unlikely to succeed.

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"C. & D." Dispensing Price List.—The column headings under "dispensing price" in the list of price changes published last week (p. 30) should have read 4 oz., 1 oz. and 1 dr., respectively, and not as stated.



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## Conference Chairman's Address

THE second annual address of Mr. H. Brindle from the chair of the British Pharmaceutical Conference confirms his reputation as an expert in the training of pharmaceutical students. Last year, it may be recalled, he discussed prospective changes in the curriculum, including in his purview the report of the Norwood Committee, the Education Bill (now an Act of Parliament), and the Pharmaceutical Society's Committee of Inquiry set up in 1937. The difficulty of finding a suitable time for apprenticeship was demonstrated, and the desirability of serving it after qualification was urged. This year, as our abstract of his address (pp. 68-72) shows, Mr. Brindle has, so to speak, added a wing to last year's structure. The two styles of architecture harmonise well. The chairman has set forth in detail the differences between chemistry in general and pharmaceutical chemistry in particular, as taught in universities on the one hand and in schools of pharmacy on the other.

### Points of Special Interest

This kind of address, with its closely knit sequence of thought, does not require a formal analysis. We may, however, select three points for special mention. The first point is the attention paid to practical work in university courses in chemistry,

beginning at an early stage in training:—

"An error of 0.2 per cent. may make all the difference between the acceptance or rejection of a large amount of valuable material, and the analytical processes must be practised until a very high degree of accuracy has been gained. He [the student] must be able to determine whether a chemical contains five or seven parts per million of lead or two or three parts per million of arsenic. In the second year . . . this specialisation in analytical methods is still more emphasised."

### Supplementary Courses

The second point is the benefit of supplementary courses following the attainment of a degree or diploma:—

"Modern universities can also offer diplomas, degrees, or training in chemical engineering, bacteriology, pharmacology, botany, etc., which can be taken with advantage by the student who intends to devote himself to some aspect of pharmaceutical chemistry. With careful planning on the part of the teacher, and hard work on the part of the student, an academic qualification in one of these subjects should not require more than one year, in addition to the ordinary pharmacy course."

The attraction for an ambitious student of thus adding a second string to his bow at a comparatively small cost needs little stressing: those who have adopted this plan are, we believe, unanimous in their approval of it. The third point is a comparison of post-graduate research in a university with post-graduate research in industry, and holds the balance fairly between them. The mental process of the experimenter, the chairman remarks,

"is the same whether the research is carried out in the laboratory of an industrial firm, or a university, or on the working bench of a pharmaceutical dispensary. Some differences in the kind of work carried out are liable to creep in, governed by such factors as the freedom which is the most treasured possession of the scientist in academic life, as opposed to direction and restriction by

circumstances, or from the management. . . . Excellent work of the greatest service to humanity has been produced under both conditions . . ."

As we pointed out a year ago, Mr. Brindle then emphasised the value of a university education in training a student "in such a way as to enable him to train himself" and in teaching him to think "along right lines." Our universities are the power-houses of the intellectual life of the country, and there is a growing consensus of opinion that they should be made available for every student who can profit by them. The cramming of students known at some schools a generation or more ago was apt to result, unless the recipients were fully alert, in what may be called a "utility" education. While not claiming for a university training in pharmaceutical subjects an immeasurable superiority to the corresponding training in schools or colleges, we may point out that it sets a standard.

One matter that universities and independent institutions alike need to keep before them is the balancing of the curriculum so as to avoid overloading their students. A comparison of the Pharmaceutical Society's educational requirements of twenty-five years ago with those of the present day shows some notable additions without, so far as we can see, a corresponding adjustment of the load of knowledge that candidates are judged capable of carrying. It should be borne in mind that all excess in this burden tends to produce some degree of cramming. Mr. Brindle's remarks on the desirability of the Pharmaceutical Society's extending grants to other educational bodies and his further proposals on apprenticeship will no doubt receive consideration in the appropriate quarter. In commending his address to the attention of our readers, we may note its implicit recognition of the discipline essential in all scientific work.

### Coupons for Powder Puffs

THE report of a legal action given on p. 56 of this week's issue directs attention to the necessity of demanding coupons from customers for handkerchief powder puffs, even if the goods in question have been purchased coupon-free as a result of the supplier

failing to collect coupons from the retailer. After taking the appropriate coupons the retailer must surrender them to the coupon-collection department of the Board of Trade. A quarter of a coupon is required where the handkerchief of the puff does not exceed one square foot; above that measurement the coupon value is one-half.

### Relief for Wife's Earned Income

A MATTER of practical interest to many traders whose wives help in the conduct of the business concerns the additional personal allowance the husband can claim, provided certain conditions are complied with. The authority is Section 18 (2) of the Finance Act, 1920 (as amended), which provides that:—

If the total income of the claimant includes any earned income of his wife the deduction to be allowed under this section (i.e. the personal allowance) shall be increased by an amount equal to nine-tenths of the amount of that earned income but not exceeding, in any case, £80.

The right is dependent on the wife's being in receipt of *earned* income. If such income is included in the husband's return there is, in effect, total immunity from tax liability on it, up to £89 (because the one-tenth earned income allowance is given first of all, along with that on the husband's earned income. That leaves £80, which is the maximum amount of additional personal relief to be given to the husband). Where the wife's earnings are less than £89 a year, relief is limited to the lower figure. If they are more than £89, the greatest relief obtainable is one-tenth of the earned income, plus £80.

The earned income of the wife mentioned in the quotation from the Finance Act, 1920, need not come in from her employment in the service of an outside party, but may be income received by her from service in her husband's business, trade, or profession. It must, however, be *bona-fide* service. A book entry unsupported by actual payment does not suffice to entitle the taxpayer to the additional relief. Wages or salary must be paid, and an entry in the books of account is desirable, though not absolutely essential if proof of payment should be called for.

# Scarce and Less-scarce Drugs

THROUGHOUT the years of the war in Europe it has been necessary to announce from time to time restrictions on the use of certain drugs as a measure of conservation of supplies. While it cannot yet be claimed that the supply position of drugs has noticeably improved, it is noteworthy that the Ministry of Health has apparently found it possible to go a short way along the road to more normal conditions. The official announcement on p. 73 that the Scarce Substances Order, 1941, is to be revoked, and the Scarce Substances Order, 1942, is to be substantially amended, should be carefully noted by pharmacists who will be unable, after November 1, to use "authorised alternatives" for a considerable number of commonly prescribed articles. For example, the four principal potassium salts (bicarbonate, bromide, citrate and iodide) will no longer be "scarce

substances" and will have to be supplied when ordered. Similar conditions will apply to many spirits and tinctures included in the schedule to the 1942 Order (the exceptions are given in the official notice), necessitating, in some instances, a considerable capital outlay for the purchase of fresh supplies. It is pointed out that as ten of the "authorised alternatives" named in the 1942 Order, but omitted in the new Order, will still be usable in N.W.F. formulas, chemists will have a good opportunity of using up their stocks of some of the "authorised alternatives," but for prescriptions other than N.W.F. the original preparations will have to be supplied. It would be wise, therefore, for pharmacists to go through their stocks of the substances affected (see table below) without delay so that they will not be left with useless galenicals on November 1, when the new Order comes into operation.

Article	Position on November 1, 1945
<i>Extractum ipecacuanhæ liquidum</i> .. .. .	Remains "scarce substance"
<i>Sum gentianæ compositum concentratum</i> .. .. .	ditto
<i>Sum gentianæ compositum recens</i> .. .. .	ditto
<i>Pssii bicarbonas</i> .. .. .	No longer "scarce substance"
<i>Pssii bromidum</i> .. .. .	ditto
<i>Pssii citras</i> .. .. .	ditto
<i>Pssii iodium</i> .. .. .	ditto
<i>Stus ætheris nitrosi</i> .. .. .	ditto
<i>Stus ammoniæ aromaticus</i> .. .. .	Remains "scarce substance"
<i>Stus chloroformi</i> .. .. .	ditto
<i>Stus menthæ piperitæ</i> .. .. .	ditto
<i>Tura aurantii</i> .. .. .	ditto
<i>Tura belladonnæ</i> .. .. .	No longer "scarce substance"
<i>Tura calumbæ</i> .. .. .	ditto
<i>Tura capsici</i> .. .. .	Remains "scarce substance"
<i>Tura cardamomi composita</i> .. .. .	No longer "scarce substance"
<i>Tura cinchonæ</i> .. .. .	ditto
<i>Tura cinchonæ composita</i> .. .. .	ditto
<i>Tura colchici</i> .. .. .	ditto
<i>Tura gentianæ composita</i> .. .. .	ditto
<i>Tura hyoscyami</i> .. .. .	ditto
<i>Tura ipecacuanhæ</i> .. .. .	Remains "scarce substance"
<i>Tura limonis</i> .. .. .	ditto
<i>Tura lobeliæ ætherea</i> .. .. .	No longer "scarce substance"
<i>Tura nucis vomicæ</i> .. .. .	ditto
<i>Tura opii camphorata</i> .. .. .	ditto
<i>Tura quassia</i> .. .. .	ditto
<i>Tura quillaia</i> .. .. .	ditto
<i>Tura scillæ</i> .. .. .	ditto
<i>Tura senegæ</i> .. .. .	ditto
<i>Tura stramonii</i> .. .. .	ditto
<i>Tura tolutana</i> .. .. .	ditto
<i>Tura valerianæ ammoniata</i> .. .. .	ditto
<i>Tura zingiberis mitis</i> .. .. .	Remains "scarce substance"



## PHARMACEUTICAL CHEMISTRY—WHENCE AND WHITHER?

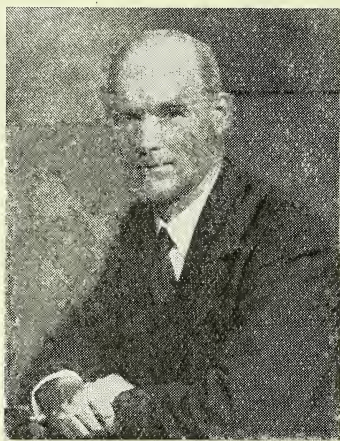
Abstract of the address given by the Chairman of the British Pharmaceutical Conference (Mr. H. Brindle, B.Sc., Ph.C., F.R.I.C.) at the Conference annual meeting in London, July 1946

We, who are pharmacists, know in a general way what we mean by pharmaceutical chemistry. When, however, we attempt a precise definition, difficulties arise, and I, at least, have derived no help from books of reference. One almost begins to wonder if pharmaceutical chemistry has really a concrete existence. Yet students of the history of chemistry will agree that in days not long passed all chemistry was pharmaceutical chemistry and all chemists were pharmaceutical chemists. Some two centuries ago chemistry began to emerge as a so-called pure science, whatever that term may mean, and in the course of years the lusty child has vastly outgrown its parent. As usually happens in a family, at first the child was largely dependent upon the parent, but in the later days the parent derives more and more help and encouragement from his descendant.

The alchemists were really neither chemists nor apothecaries. They added very little to knowledge of chemistry, and were followed about the tenth century by the iatro- or medical chemists, who should be considered as the first pharmaceutical chemists. All who practised chemistry at this time were interested in the subject from the medical, i.e. the pharmaceutical, point of view. Their main aim was to prepare chemical substances for use in medicine, and their interest in chemistry as a science was distinctly secondary. Nevertheless, in the main they were the only chemists of the time, and chemistry was pharmaceutical chemistry, and continued to be so for centuries. I am not going to refer to the discoveries of these workers; the mere enumeration of their names is sufficient to kindle a feeling of pride in the heart of the present-day pharmaceutical chemist. Paracelsus, who lived in the first half of the sixteenth century, was followed by such as van Helmont, Agricola, Glauber, Scheele, Kunkel, Davey, Berzelius, Liebig, Wohler and Dumas, to name a few only who spent

periods of their life as apothecaries, and pharmaceutical chemistry can justly claim them. John Dalton was one of the first non-apothecaries to teach pharmaceutical chemistry. Chemistry was becoming sufficiently important to be studied and practised apart from medicine. In 1827 the Pharmaceutical Society of Great Britain and the Chemical Society were

founded. It is significant as indicating the trend of the ideas of the time that these two ever synchronised, but pharmaceutical chemists were still the pioneers, as the following year the newly founded Pharmaceutical Society established its School of Pharmacy. The practical chemistry laboratory which was instituted as part of the school, was possibly the first well-equipped laboratory to be established in this country for the teaching of practical chemistry. It was, and is, impossible to mark any boundary between pharmaceutical chemistry and the rest



Mr. H. Brindle, B.Sc., Ph.C., F.R.I.C.

the science. With the extraordinarily rapid growth of the number, complexity and importance of chemical substances used in medicine many persons are engaged in the preparation and in research upon them who would consider themselves organic, physical or technical chemists practising their own branches of chemistry. Nevertheless, it would perhaps be reasonable to regard them as being mainly engaged in pharmaceutical chemistry.

### Training and Examination

Until some twenty years ago the Pharmaceutical Society, in its wisdom, did not officially recognise pharmaceutical chemistry as a subject which a pharmacist should be taught, or in which he should be examined. With the reorganisation of the syllabus and examinations in 1935, chemistry as a named subject was finally relegated, if that is the correct term to use, to the Intermediate course and examination, and pharmaceutical chemistry became

object of both qualifying examinations. Opinions appear to differ regarding the most suitable way of teaching the subject, while certainly the practice varies. All possible differences in the organising of the teaching appear to exist but seem to work satisfactorily. On the one hand, as in, the Pharmaceutical Society's College, we have the whole subject in all its branches and the underlying "pure" chemistry taught in the Department of Pharmaceutical Chemistry, whilst on the other hand we see institutions in which it is controlled and taught by the staff of the chemistry department. In Manchester we take what might be regarded as a middle course. Chemistry and pharmaceutical chemistry, except in the Chemist and Druggist course, are separate subjects, taught, with collaboration, in different departments of the University, and forming distinct and separate subjects in the final examination for the degree in pharmacy.

#### The First-year Course

Pharmaceutical chemistry as understood by the student for the Chemist and Druggist diploma of the Pharmaceutical Society is different from that of the student who is reading for a higher qualification. The Chemist and Druggist course as given by different institutions is more or less uniform. The examination syllabus, and the examiners' interpretation of it, considered in conjunction with the time available for teaching in a one year's course, compel the teacher to keep within certain fairly clearly-defined limits. As with the other subjects, it is only the above-average student who can be considered as having reached a satisfactory standard at the end of his intensive course of one session. Nevertheless, the intelligent student receives a good introduction to the subject. His course in organic chemistry is approximately equal to the usual first post-intermediate year of university pass degree. The inorganic chemistry which he studies is of a rather specialised nature in that he is concerned more with the commercial methods for the production of medicinally used chemicals, and these affect their purity. In both the organic and inorganic sections the pharmacy student must study particularly the methods for controlling the purity of drugs, assay processes and tests for purity entering largely into his course. This is an important point of difference between pharmaceutical chemistry and chemistry as it is ordinarily taught. In his practical work his skill must be such that his results are of value in

assessing the quality or purity of the substance which he is submitting to test.

#### The Second or Final Year Course

The second or final year's course in pharmaceutical chemistry may be regarded in some particulars as an extension and continuation of the previous year's work. But it is very much more than that. It completes the advanced student's course in the subject and, as these students have varied objectives in view, an attempt is made to arrange as comprehensive a course as the time allotted to the subject will allow. The pure organic and physical chemistry are usually taken to about pass B.Sc. standard. Inorganic chemistry continues to be rather specialised and largely limited to an extension of the first-year course on similar lines. Inorganic medicinal and pharmaceutical substances are considered in greater detail and the field extended by the inclusion of similar knowledge regarding substances used in analytical chemistry, particularly that which might be considered as pharmaceutical. In addition, the courses attended include a fairly comprehensive study of synthetic drugs. As an indication of the phenomenal increase in the number of new synthetic drugs which have established themselves in medicine, it may be pointed out that since the publication of the last edition of the British Pharmacopœia in 1932, seven Addenda have been issued, and in these have been included about fifty entirely new synthetic organic drugs. Needless to say, these fifty which have been officially recognised constitute only a very small fraction of the number which may be considered to have been actually introduced in the thirteen years which have elapsed since the Pharmacopœia was published. Enough chemotherapy should be included to fire the student's imagination regarding its possibilities, and his general organic course will include typical reactions which are utilised for the synthesis of medicinals and which have promise as regards still undiscovered compounds.

The physical chemistry included is of about pass degree standard and forms a good introduction to the subject. Some pharmacy students are handicapped in this part of the subject by weakness in mathematics, since the minimum standard required by the Pharmaceutical Society is a School Certificate pass. Most universities demand at least the credit standard for entry to their science faculty, and in some cases all chemistry students are



expected to have reached the Higher School Certificate standard in this subject. It is almost essential for the successful prosecution of research in any branch of chemistry that a sound mathematical background should have been gained. It is not easy to take up again the study of mathematics when one has halted some years before at a low school certificate standard. The result is that students who were wise enough to proceed well beyond the minimum standard are preferred when the question of research arises. I have not time to deal at any length with the training in practical pharmaceutical chemistry which is received by the final year student. As with the first-year course, emphasis is laid very strongly on analysis.

### Undergraduate Courses in the Future

The undergraduate courses in pharmaceutical chemistry are capable of being considerably modified and extended in the future. It is largely a matter of available time. The first year of the Chemist and Druggist course cannot be altered to any considerable extent whilst it remains a one-year course. Even if it is extended at some future time to two years I should be sorry to see very much subject-matter added to it. In my opinion it would be better to retain the present syllabus in substance, perhaps with a very few additions, and demand a more thorough knowledge of the theoretical work coupled with more experimental work in the laboratories. If more time becomes available most of it should be spent in the laboratory in becoming familiar in a practical way with the reactions and syntheses of the organic chemicals. The examiner could also demand more knowledge of the manufacturing processes for inorganic chemicals. Possible increases in the subject-matter of a final-year course in pharmaceutical chemistry bristle with difficulties, but they should be considered, since in many schools a further year will be available. Some universities will accept the proposed School Leaving certificate as the equivalent of the Intermediate B.Sc. or B.Pharm. examination, but will demand the usual three years' residence for a degree, thus conferring upon the student the benefit of three years' post-intermediate education. I am not going to attempt to distinguish between the theoretical and the practical work. They should be interdependent but, as in the first post-intermediate year course, I should like to emphasise the importance of experimental work in the laboratory.

However limited his opportunities carrying it out, any pharmaceutical chemist worthy of the name must have his mind directed towards research. No problem too small to be worth someone's attention. The skilled research worker with elaborate facilities, great resources and possibly considerable technical assistance at his disposal should not fall into the fairly common error of using a steam hammer to crack nuts. There will always be a brilliant or exceptional student, and for him exceptional treatment should be devised. I can today deal only with the average student, or the somewhat above average, since it is usually he who thinks seriously of research. We should be prepared to admit at once that, apart from analysis, in which the field is rather limited, the average graduate in pharmacy is not well equipped for research in pharmaceutical chemistry. I have already indicated that his training in analysis is at least as good as, and usually better than, that of the honours graduate in chemistry. Apart from this one branch, however, his course has been so intensive that his knowledge is inclined to be superficial, and his manipulative skill not very good. One year's post-graduate training in methods of research, such as he usually receives when he proceeds to a master's degree, helps considerably in improving matters, but such training is liable to be specialised. The position will be better when a further year is added to the course provided that the student who has research in view has been wise enough to acquire a wide education as possible before commencing his course. In most universities the degree pharmacist can continue work for the post-graduate research degree of M.Sc., Ph.D. or D.Sc., and such work constitutes a good training for a research career. A still better initial course, which opens out wider and more varied opportunities in many directions, consists in combining the degree in pharmacy with a honours degree in another subject.

### Research in Industry

Experience, and therefore training, in research can also be obtained in the research laboratories of many industrial firms. Such experience may differ little from that gained in academic institutions, but on the other hand it may be of a very different type. It is not the type of research that governs its quality, but the conception and the work itself. Pure research is undertaken with no thought of its application. Its results may add to knowledge, but it



not carried out primarily for any benefit which it may confer upon any individual, community, or even upon mankind in general. Industrial or applied research includes specific research and fundamental research. The first is concerned with problems covering a very narrow field which may be peculiar to some particular process or laboratory. "Fundamental" is a term sometimes applied to pure research, but it is perhaps better limited to cover the major problems of industry, and is of a long-term nature.

### Organisation of Research

Since much research in pharmaceutical chemistry involves so-called "pure" chemistry, and as no small amount of original work carried out by chemists is really pharmaceutical, there is a considerable overlap in the subjects and, therefore, in the organisation. Pharmacy as a body has in the past done very much in the way of organising or assisting research. Care should be exercised in the appointment of the junior and senior staff of the pharmacy school that the successful candidate is research minded. As pharmacy teaching is constituted at present we cannot expect to carry the brilliant researcher who is capable of teaching or expounding his subject. But such a person is really a rarity. Far commoner is it for the teacher, who may be described as moderately successful as a teacher, to be incapable of carrying out research because he lacks the initiative, energy, knowledge, capacity or desire. He should not be appointed, or if appointed in mistake, should make room for a better man.

Research scholarships are invaluable. Until fairly recently, so far as pharmacists were concerned, they were practically nonexistent, being limited to one or two tenable in the College of the Pharmaceutical Society. A few enlightened firms are realising that they can afford to invest—let us use the word deliberately—funds in this way. I do not wish to particularise, but in Manchester we have three such post-graduate pharmacy scholarships awarded, which they should be, without any restriction to the donors as to the type of work which may be undertaken by the scholar. London has several, but the number available in the rest of the country is lamentably small. One large industrial organisation has recently voted many thousands of pounds annually for seven years to be devoted to fellowships to foster fundamental research in universities. The recommended

subjects reached the fringe of pharmacy or pharmaceutical chemistry, but stopped short there.

Research degrees stimulate research by offering to the young student what appears to him to be a material reward for his labours. Now that more pharmacists are graduating in universities, pharmaceutical research is sure to expand. May I here be allowed to revert to the subject of the apprenticeship or pupillage which all registered pharmacists are compelled to undergo? If official pharmacy persists in its present policy of insisting on a minimum of two years' pupillage, which is often extended to three or even four years, then it will drive much pharmaceutical research, and incidentally other pharmaceutical work on the manufacturing side, into the hands of non-pharmacists. One would imagine that those entrusted with the furthering of the interests of all pharmacists would realise that already the majority of students are about twenty-one years of age before they can graduate, without having served an apprenticeship. In the near future the average age will be twenty-two. For a research career, or even to undertake occasional research, a further two years' training must be added—twenty-four years of age and an apprenticeship still to be served to become a registered pharmacist! Surely the one year's pupillage after passing a Qualifying examination which I suggested last year is no more than a compromise and can scarcely be argued as a necessity.

### Grants in Aid

Grants in aid, if reasonably substantial, assist by making research easier by the provision of financial aid. A research assistant or technician is a boon to the research worker who has teaching or administrative duties to carry out. Academic institutions are not usually able to provide such assistance. This and many other problems can be solved when more funds are available for research. The question is being considered by the Government and an official publication on Scientific Research and Development was issued last year. Is it too much to hope that a body for pharmacy similar to the Medical Research Council could be set up? Some thirty branches of industry have autonomous research associations, financed to some extent by the industry concerned but receiving aid from the Government. The Pharmaceutical Society would appear to devote most of its attention and such funds as it votes for research to its own college.

The fact should not be overlooked that most of the pharmacists who largely finance the Society by the payment of annual registration fees were trained elsewhere and possibly have a greater interest in other schools of pharmacy. The Government proposes greatly to increase its financial assistance to universities, and this should result in a greater share of the cost of the College of the Pharmaceutical Society being shouldered nationally. Then, if not before, the Society should consider ways and means of encouraging research in other schools of pharmacy.

There need be no attempt to suggest subjects for "pure" research. The large research sections of chemistry departments of universities, sometimes with forty or fifty or more research workers, can afford to specialise on pure research, and quite often they are attracted to pharmaceutical chemistry. Departments of pharmaceutical chemistry with their more modest staffing and fewer research students, and also, in general, members of the staffs of pharmaceutical manufacturing firms, usually find themselves compelled to carry out the shorter term fundamental or specific research. The very valuable research list of this Conference will no doubt be published annually again with the return of more normal conditions. When last issued in 1939 it named seventy subjects for investigation, the majority of which were concerned with pharmaceutical chemistry.

### Effects of Research on Status

The status of the pharmacist depends ultimately on the judgment which the rest of the community passes upon him and his work. The pharmacist who carries out research is helping in many ways to raise the status of his brother pharmacists as well as his own. His contacts with other research workers in medicine and pure science help to increase the respect in which pharmacy and pharmacists are held, and his work is one justification for our claim that pharmacy is a scientific profession. Martin Arrowsmith's prayer has been quoted before to a pharmaceutical audience and deserves repetition. It is the prayer of the scientist: "Give me unclouded eyes and freedom from haste. Give me a quiet relentless anger against all pretence and all pretentious work and all work left slack and unfinished. Give me a restlessness whereby I may neither sleep nor accept praise till my observed results equal my calculated results, or in pious glee I discover and assault my error."

## WEST HAM MEETING

THE forty-fourth annual meeting of the West Ham and Eastern District Association of Pharmacists and fourteenth annual meeting of the West Ham Branch of the Pharmaceutical Society were held recently. Mr. W. H. CLOUD, who presided, gave a general report of the past years' activities which had not been curtailed despite enemy air attacks. MR. JOSEPH REED reported that the Association had been able to donate £75 to the Society's Benevolent Fund; the balance in hand remained approximately the same as at the beginning of the year, and the Branch had been able to carry out its programme within the Society's grant. During the previous thirteen years the West Ham Association had been instrumental in sending over £2,300 to the Benevolent and Orphan Funds. MR. STANLEY ROBINSON (secretary) said membership of the Branch had been in the region of 350, but many pharmacists domiciled in the area were in the Forces or for other reasons not on the Branch register. About twenty student associates and several members of the Association were members of other branches. Visitors to West Ham had included Mr. F. V. Adams (deputy secretary of the Pharmaceutical Society), Mr. J. C. Young, Mr. V. Atkinson, Professor H. Berry, Mr. F. Wells, the Society's president, Mr. V. Clark (Clerk to the West Ham Insurance Committee), Mr. C. H. Sykes (head pharmacist, London Hospital) and Dr. Frank Wokes. A meeting organised by the Branch and open to all pharmacists had been held at Bloomsbury Square on March 1 to enable Council candidates to address London members of the Society. During the year, members had organised a testimonial to Mr. Joseph Reed, for many years secretary and treasurer to the Association and Branch; a dinner in his honour took place in November. The president and other members attended meetings at Romford, West London and North Metropolitan branches during the year.

### Officers

The meeting proceeded to elect a committee of sixteen members; subsequently the following officers were appointed: *President of Association and Chairman of Branch*, Mr. Gordon Harris, Ilford; *Vice-presidents*, Messrs. W. H. Cloud, Barkin and R. L. Worth, Manor Park; *Treasurer*, Mr. Joseph Reed, West Ham; *Secretary*, Mr. Stanley Robinson, 21 Broadhurst Avenue, Ilford, Essex.



## PHARMACEUTICAL SOCIETY OF IRELAND

The July meeting of the Council of the Pharmaceutical Society of Ireland was held on July 10, Mr. C. J. Cremen (president) in the chair. Other members of the Council present were Messrs. J. K. Whelehan, P. C. Cahill, T. C. Scott, P. Brooke-Poly, M. Costelloe, W. G. Cunningham, P. Corrigan, T. B. O'Sullivan, F. X. McHugh, P. Fullam, P. F. McGrath, C. O'Neill, N. A. McKane and M. Power.

### Correspondence

A letter was read from the Department of Local Government and Public Health stating that Mr. P. C. Cahill had been appointed a member of the Therapeutic Substances Advisory Committee. A letter from Dr. F. C. Hamilton, M.P.S.I., 37 Norfolk House Road, Streatham, London, S.W.16, intimated that he had been appointed physician and surgeon to His Imperial Majesty Haile Sellassie, Emperor of Abyssinia, and requesting to be furnished with a letter setting out that he had been elected a life member of the Society. On motion of the PRESIDENT, seconded by J. K. WHELEHAN, it was agreed to have the Secretary of the Society affixed to a letter stating that Dr. Hamilton had been elected a life member.

Mr. P. C. Cahill wrote enclosing Benevolent Fund subscriptions received through the Irish Chemists' Golfing Society, as follows: Irish Chemists' Golfing Society, £5s.; Mr. T. C. Slowey, Henry Street, Dublin, £3 3s.; Mr. P. D. Larkin, M.P.S.I., Loughda, £3. The Council adopted resolutions expressing its grateful thanks to the Irish Chemists' Golfing Society, Messrs. T. C. Slowey and P. D. Larkin for their generous subscriptions.

### Registration and Membership

The following changes of address were notified: Dr. F. C. Hamilton, M.P.S.I., 37 Norfolk House Road, Streatham, London, S.W.16; Mr. D. Roice, M.P.S.I., 90 Main Street, Gorey, co. Wexford; J. Coffey, L.P.S.I., to 1 Belfast Road, Limerick, co. Down.

The following who submitted certificates were granted Preliminary registration: Mes A. Clarke, M. J. Cooke, E. M. Melley, M. A. Nolan and Messrs. P. M. Martin and T. Walsh. The Licence certificate of Miss Angelina Gabriel McCarthy signed and sealed.

The following were elected members of the Society: Messrs. V. Boyd, H. Hughes,

J. Lenihan and J. Ryan. The following were nominated for membership: Miss P. Hans, c/o 66 Patrick Street, Cork, and Dr. J. B. Maher, Slaneyville, Tullow, co. Carlow.

The reports of the House, Law, Schools, and Certificates and Declarations Committees were submitted and adopted. The last-named committee reported that forty-five candidates had entered for the July Licence examination; fifty-three candidates had entered for the Assistants' examination.

At a meeting of the Benevolent Fund held following the Council meeting a number of grants were passed for payment.

## A NEW SCARCE SUBSTANCES ORDER

THE Ministry of Health announces that a new Scarce Substances Order will shortly be published revoking in its entirety the 1941 Order (S. R. & O., No. 273) wherein authorised alternatives were provided for four salts of potassium, and amending the 1942 Order (S. R. & O., No. 709) by omitting twenty of the twenty-seven spirits and tinctures scheduled there as scarce substances. The Gentian Order (No. 1345 of 1943) and the Ipecacuanha Order (No. 795 of 1944) continue in force, and the Cinchona Products Order continues to control the use of tinct. cinchon. and tinct. cinchon. co.

The net result of the amended Scarce Substances Orders is that eleven galenicals remain scheduled as scarce substances, namely, spirit. ammon. aromaticus, spirit. chloroformi, spirit. menthae piperitae, tinct. aurantii, tinct. capsici, tinct. limonis, tinct. zingib. mit., inf. gent. co. conc., inf. gent. co. recens, extract. ipecac. liq., and tinct. ipecac. The National War Formulary uses ten of the authorised alternatives which were named in Order 709 but which have been omitted in the new Order as ingredients of formulary preparations, and these preparations will continue to be dispensed according to the N.W.F. The pharmacist is thus left with stocks of the authorised alternatives for six other tinctures, and of these tinct. valer. ammon. conc. and tinct. card. co. conc. are the only ones which are commonly used and of which he may hold much stock. This advance notice is given by the Ministry of Health in order that both pharmacists and wholesale houses may have time to use up such stocks. The Order will not come into operation until November 1. (Editorial comment, p. 67.)



## SCIENCE PAPERS AT THE CONFERENCE

The following are summaries of two of the science papers submitted at the annual meeting of the British Pharmaceutical Conference on July 18

### The Assay of Alkaloidal Galenicals Using the Chromatograph

#### Part I. Preparations of Belladonna, Stramonium and Nux Vomica

By G. W. BROWNLEE

THE application of the chromatograph as a prelude to the assay of various alkaloidal galenicals, prepared according to the method of the German Pharmacopoeia, has been shown by Merz and Franck, Valentine, and Valentine and Franck, to be useful as an indication of the identity of the preparation, and in some cases as a suitable method of simplifying alkaloidal assays. Since the mode of preparation, assays and pharmacopoeial requirements of the various alkaloidal galenicals differ in the German and British Pharmacopoeias it was decided to determine how far the chromatograph could usefully be applied to identification and analysis of official and commercial preparations. The quantities used in the assays were those which could be conveniently used in orthodox analysis.

#### Simple Apparatus

The apparatus used was simple and consisted of a glass tube 60 cm. in length with an internal diameter of 1.30 cm. Into one end of this tube was inserted a rubber bung through which was passed a tube 8 cm. in length and 8 mm. in diameter. The flask used was marked at 30 and 40 mils and attached to a water pump. The adsorbent used in these processes was alumina and was packed in the tubes in the following manner. A small piece of cotton wool was first placed in the tube and pressed down with a wooden rod 1 cm. in diameter flattened at the end; 50 gm. of alumina was introduced 5 gm. to 8 gm. at a time and pressed down evenly with the rod. After each quantity had been pressed down it was found convenient to tap the side of the tube to avoid a series of rings showing where each fresh portion had been added. The length of the column of alumina was about 37 cm. On top was placed a piece of filter paper cut to size and moistened with the particular galenical menstruum to be used, e.g. alcohol (40 per cent.) when liquid extract of stramonium was being assayed, or alcohol (70 per cent) when liquid extract of belladonna was being used. In some cases a small plug of cotton wool, suitably moistened, was more convenient, e.g. preparations of nux vomica and soft ex-

tracts generally. The residues in the case of belladonna and stramonium compared favourably in colour with those from official assays.

Various belladonna and stramonium preparations (both official and commercial) were examined. The assays were carried out in such a way that the alkaloidal residues from the official and chromatographic processes were heated at the same time, the same oven to a constant weight. Galenicals of hyoscyamus were found to be unsatisfactory for the process, primarily because of their high extractive and low alkaloidal content.

It has been found in practice that with the assay of the British Pharmacopoeia for liquid extract of nux vomica has been applied, emulsions which are difficult to separate have been occasionally formed.

It was decided to try the chromatographic as an alternative process. The method adopted was similar to that applied in the belladonna and stramonium preparations.

In their investigations Merz and Franck titrated the liquid which came from the chromatograph and thus obtained the total alkaloids. For two reasons, however, this method cannot be applied here. First, because total alkaloids are not required by the official assay. The second and more important reason is that a certain alkaline is carried down from the alumina and gives results for total alkaloids by direct titration are not in agreement with those obtained by extraction. This applied to both types of alumina used. It was decided to try direct estimation of strychnine in nux vomica preparations by chromatography. The neutralised product of preparation which have been treated directly with nitric acid in the presence of sulphuric acid. The results were in good agreement with theoretical figures and B.P. assay, and the residues obtained were comparable in colour with those obtained in the official assay.

Two types of alumina were used in the assays, type A, which was standardised according to Brockmann, and type B, which was 100- to 200-mesh powder

and specially suited to chromatographic work.

Comparisons were made of the suitability of the two types for analytical use; some of these results are given in the table below:—

COMPARISON OF TWO TYPES OF ALUMINA

Preparation	Type A alkaloid	Type B alkaloid
Extractum belladonnæ liquidum	per cent. 0.705	per cent. 0.705
"    nucis vomicæ    "	1.490	1.498
"    stramonii    "	0.247	0.247

It will be observed that there is no difference, so far as the alkaloidal assays are concerned, between the two types. The chromatograph of the type A is usually slightly better defined than that of the type B. In this case of preparations of nuxvomica which had been directly treated

with sulphuric acid and nitric acid, type B was found to give in the conditions of working a cleaner liquid than type A.

The use of chromatographic methods in the assay of preparations of belladonna, stramonium and nuxvomica shows that the analytical results obtained compare favourably with those arrived at by official methods. With preparation of belladonna and stramonium a liquid is obtained for analysis which is much cleaner than that obtained by the official method, and the resulting assay is free from complications due to the formation of emulsions. The alkaloidal residues obtained are comparable in appearance with those of the official assays. The chromatographing of the nuxvomica preparations results in a liquid which is easy to manipulate and readily extracted by chloroform without emulsification.

(From the laboratories of Evans Sons Lescher & Webb, Ltd., Liverpool).

## Tests for Acetone and Ethyl Alcohol with Special Reference to Methyl Alcohol

By G. J. W. FERREY, B.Sc.

In this paper the author describes experiments to show that the B.P.C. tests for limits of ethyl alcohol and of acetone are incompatible, i.e. that methyl alcohol containing insufficient acetone to give a violet coloration with Legal's solution may contain enough to give a turbidity or precipitate in the iodoform reaction for ethyl alcohol. The B.P.C. requirement for the violet coloration makes the test less delicate, but if any difference in colour from the blank is the criterion the test becomes more sensitive and agrees with the statement in Allen's Commercial Organic Analysis that the test will show the presence of 0.05 to 0.10 per cent. of acetone. Mr. Ferrey suggests that the Codex tests for limit of acetone in methyl alcohol, isopropyl alcohol and industrial methylated spirit (acetone free) should be replaced by one based on the reaction of acetone with Nessler's reagent. This last gives a very insoluble colloidal precipitate with traces of ketones and aldehydes. The following detailed directions are given for methyl alcohol. Dilute 1 mil with water to 50 mils and add to the product 5 mils of alkaline solution of potassium-mercuric iodide; the turbidity at the end of five minutes is not greater than that produced by similarly treating 1 mil of a 0.05 per cent. v/v solution of acetone in water. If a lower limit than 0.05 per cent. v/v is to be imposed, the amount of the sample taken

may be increased, as the solubility of the complex and its rate of formation is not influenced by a small amount of alcohol. The author also recommends this test in place of the indigotin reaction of Adams and Nicholls as a limit test for acetone in industrial methylated spirit (acetone free).

On the sensitivity of the iodoform test for ethyl alcohol given in the Codex, the author prefers the formation of a colour or precipitate as better than relying on the odour of iodoform. The U.S.P. test which requires absence of colour and turbidity will not detect less than 3 per cent. even after thirty minutes' heating. The following test suggested for the Codex gives a marked turbidity with 10 mgm. of ethyl alcohol in a few minutes. To 5 mils add 25 mils of water, 25 mils of solution of sodium hydroxide and 25 mils of N/10 iodine. Heat on water bath at 39° to 41° for not more than ten minutes with constant shaking. The test gives crystalline precipitates.

Since acetone also reacts to form iodoform quickly whilst ethyl alcohol is only slowly attacked at room temperature, it is suggested that any acetone present may be decomposed first and the precipitate filtered off; the test for ethyl alcohol is then applied. By this modification the test is more sensitive for ethyl alcohol because the solution already contains some dissolved iodoform.

(From the laboratories of James Woolley, Sons & Co., Ltd., Manchester).



## TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

### 28 Essex Street, W.C.2, July 18

THERE is not much change to report in the general position of the drug and chemical markets. A considerable number of inquiries is reaching London, but little business has yet been done in this direction. A substantial increase in imports will be required before the stock position reaches a level sufficiently high to meet current demands. With one or two minor exceptions, prices are maintained at about the levels that have been recorded in recent issues. The only important alteration in PHARMACEUTICAL CHEMICALS concerns CAFFEINE, prices of which have been advanced as from July 16 because of higher costs of production. Buyers are reminded that business is subject to the approval of the Directorate of Medical Supplies.

### Crude Drugs

The home trade in CRUDE DRUGS is at the low level generally experienced at this time of year. Prices are about unchanged on the week. Some business is reported in CURAÇAO ALOES for prompt shipment, but Cape is still unobtainable. Little change has occurred in the position of ANTIMONY, and current business is about up to the level of home smelters' capacity. As noted last week, small supplies of BALSAM TOLU are expected shortly. Supplies of BUCHU LEAVES may be obtained on spot. CARDAMOMS is quiet and neglected. A parcel of CASCARILLA QUILLS is reported just shipped. The recent rise in CLOVES appears to have been halted; and the article is now quieter. Small quantities of Chinese MENTHOL are stated to be available at a price just above that wanted for Brazilian. NUTMEGS are in short supply, and prices are tending upwards. The price of QUILLATA BARK has hardened, following reports that exports from Chile have been prohibited. Odd lots of RHUBARB are being sold at a comparatively high price. TURMERIC is dearer ex Liverpool.

No price changes have been notified for ESSENTIAL OILS under Ministry control, and stocks of oils outside the Control are negligible. The Ministry of Food announces that there will be no change in the prices of refined oils and imported edible animal fats allocated to primary wholesalers and large trade users during the eight-week period July 22 to September 15.

### Pharmaceutical Chemicals

ACETANILIDE.—Crystals and powder are unchanged at 2s. 5d. and 2s. 6d. per lb.

ALLOBARBITONE.—Steady at 6os. per lb.

BORIC ACID.—Current rates per ton are as follows: B.P. quality, granulated, £60; crystal, £61; powder, £62. Commercial grades, £8 per ton less. Packed in one-cwt. bags, delivered carriage paid in Great Britain in one-ton lots and upwards.

CAFFEINE AND SALTS.—As a result of higher costs of production, prices have been advanced as from July 16. Caffeine and salts remain under control of the Ministry of Supply, which must give consent before any order can be executed. The new schedule is as follows (prices per lb.):—

	56 lb. to 1 cwt.	28 lb. to 56 lb.	7 lb. to 28 lb.	Smalls
Alkaloid, B.P.	s. d. 37 0	s. d. 38 0	s. d. 39 0	s. d. 40 0
Alkaloid, anhyd.	40 0	41 0	42 0	43 0
Benzate	25 9	26 9	27 9	28 9
Citrate, B.P.C.	23 0	24 6	25 6	26 6
Hydrobrom., B.P.C.	38 0	39 0	40 0	41 0
Sod. benz., B.P.	23 6	24 6	25 6	26 6
Sod. iodid.	28 9	29 9	30 9	31 9
Sod. sal., B.P.C.	24 3	25 3	26 3	27 3

Tins charged extra when supplied.

CITRATES.—Makers' prices per lb. are as follows: POTASSIUM, in 28 lb.-1-cwt. lots (containers in brackets): 3s. 6½d. (1-lb.) 3s. 5d. (4-lb.); 3s. 4d. (7-lb.); 3s. 3½d. (14-lb.) 3s. 3d. (28-lb.); IRON AND AMMONIUM (SCALES) B.P., is at 2d. per lb. above, and SODIUM is at 3d. per lb. below these prices. POTASSIUM and SODIUM POWDER, one penny per lb. extra.

MAGNESIUM TRISILICATE.—Home market prices per lb., for quantities of 28 lb.-1 cwt. are as follows (containers in brackets): 5s. 9d. (1-lb.); 3s. 7½d. (4-lb.); 3s. 6½d. (7-lb.); 3s. 6d. (14-lb.); 3s. 5½d. (28-lb.). Prices net one month.

MANDELIC ACID.—In good demand; 1 lb. 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d. 14 lb., 16s. 9d.; 28 lb., 15s. Sodium and calcium salts are at the same prices.

PILOCARPINE.—Makers quote at the following rates per oz.: BASE, 1 oz., 27s.; 4 oz., 21s. 3d. 8 oz., 20s. 9d.; 25 oz., 20s. 3d. NITRATE, 1 oz., 18s. 6d.; 4 oz., 18s.; 25 oz., 17s. 6d.

SALICYLIC ACID.—Quoted per lb. as follows, in lots of 28-lb.-1 cwt. (containers in brackets): 2s. 7d. (1-lb.); 2s. 5½d. (4-lb.); 2s. 4½d. (7-lb.); 2s. 4d. (14-lb.).

TERPINEOL.—Pure medicinal quality is available at from 3s. 3d. to 4s. per lb. for use in antiseptics of the chloroxylenol type;



## Crude Drugs

**ALOE.**—Some business is reported done in iracão for prompt shipment. Landed price will be in the region of 320s. to 325s. per cwt. Ape, unobtainable.

**ANTIMONY.**—Business is steady at unchanged prices. English minimum 99 per cent. regulus, 12 10s. per ton, delivered; crude, 70 per cent., 10.

**BALSAMS.**—Peru continues to be quoted at 11s. 6d. per lb. and Canada at 11s. 6d. Small supplies of *Tolu* are expected.

**BELLADONNA.**—English herb is quoted at 1. 6d. per lb. Indian root, testing 0.25 per cent., would be worth 2s. 3d. per lb.

**BISMUTH.**—Metal is steady at 6s. 3d. per lb. 5-cwt. lots.

**BUCHU LEAVES.**—Spot, 5s. 3d. per lb.

**CARDAMOMS.**—Aleppy greens may be had on spot at 5s. 6d. per lb., and Aleppy seed at 6s. 3d.

**CASCARILLA.**—A parcel of quills is reported set about to be shipped; spot price will be approximately 3s. per lb., landed.

**CLOVES.**—Quieter. Zanzibar, spot, 1s. 9½d. r lb., sellers.

**COCHINEAL.**—Silvers are offered on the spot 6s. per lb.

**DIGITALIS LEAVES.**—Portuguese, spot, 140s. r cwt.; English, 2s. 6d. per lb.

**ERGOT.**—Remains scarce. Good-quality material, if available, would be worth 6s. 6d. r lb.

**GINGER.**—African, spot, 85s. per cwt.

**GUM ACACIA.**—Kordofan cleaned sorts, spot, s.; bleached, 175s.; Talha, cleaned, 47s. 6d.

**HENBANE.**—Current prices are as follows: Indian, 230s. per cwt.; Russian, 325s.; Egyptian (*uticus*), 75s.

**JALAP.**—Material testing about 12 per cent., 6d. per lb., spot; 10.1 per cent., 3s.

**KAMALA.**—Material testing 6 per cent. ash priced at 2s. 6d. to 2s. 9d. per lb., on spot.

**LIQUORICE ROOT.**—Turkish, afloat, 85s. per cwt., landed, for pharmaceutical purposes only.

**MENTHOL.**—Brazilian, spot, 82s. 6d. per lb. 10 lots of Chinese are reported offered at 8s. 6d.

**MERCURY.**—Official quotations range from 8 10s. to £69 15s. per flask, according to conditions and quality, with higher prices for smaller lots and redistilled grades.

**MYRRH.**—Fair Aden sorts continues to be available on spot at £16 per cwt.

**NUTMEGS.**—In short supply. West Indian, and unassorted, spot, 2s. 10½d. per lb.; army and broken, 2s. 9d.

**NUX VOMICA.**—Cochin, spot, 37s. 6d. to 40s. r cwt.; shipment, 31s. to 32s., c.i.f.

**PEPPER.**—Whole, not picked over or cleaned, sale to processors, is officially priced at 4d. per lb. for white and 1s. per lb. for black.

**QUILLAIA BARK.**—It is reported that export from Chile has been prohibited. As a result the market has hardened and spot prices are now as follows: Natural, 80s. per cwt.; cut, 105s.; crushed, 95s.; powdered, 95s.

**RHUBARB.**—Odd cases of rough-round are occasionally turning up and being sold at about 22s. per lb.

**SENA.**—Alexandrian hand-picked pods are scarce; price nominal at 4s. per lb. Good manufacturing Alexandrian pods, 2s. per lb. Tinnelly pods and leaves are unchanged.

**STRAMONIUM LEAVES.**—Quoted by dealers at 80s. per cwt. on spot.

**STROPHANTHUS.**—About 7s. 6d. per lb. would be wanted for Kombé seed on spot.

**TRAGACANTH.**—Medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale leaf, £60; amber leaf, £50; dark amber, £40; brown leaf, £30; red-and-brown leaf, £25; red leaf, from £20; hoggy, £12 to £15.

**TURMERIC.**—Madras finger, sound quality, spot, 75s. per cwt., Liverpool.

**WAXES.**—BEES'.—Prices of crude for the home trade were given in the *C. & D.*, June 2, p. 570. CARNAUBA.—Fatty grey, spot, 490s.; chalky grey, spot, 480s.; prime yellow, spot, 590s. OURICURI.—Spot, 310s. to 320s., according to impurities; shipment, 285s., c.i.f.

## Essential and Expressed Oils

**CASTOR.**—Bulk supplies are officially quoted as follows: "Firsts," £82 per ton, "seconds," £80, both naked ex works.

**CLOVE.**—No change in English distillers' prices at 12s. 6d. to 13s., as to quantity.

**CORIANDER.**—English-distilled is offered at about 180s. per lb.

**COTTONSEED.**—Controlled prices for bulk supplies are as follows: Crude, £52 2s. 6d.; washed, £55 5s.; refined edible, £57; refined deodorised, £58 per ton; all varieties are quoted naked ex works.

**NUTMEG.**—English oil, in small supply, about 45s. per lb.

**OLIVE (EDIBLE).**—The price charged to the wholesaler by the importer is 25s. 9d. per gallon, ex store. Prices charged by wholesalers to retailers are agreed by the Ministry of Food as follows: 33s. 6d. per gallon, in 1-gallon loan cans; 34s. 3d. per gallon, in ½-gallon loan cans; 35s. per gallon, in 1-quart loan cans; 36s. per gallon, in 1-pint loan cans.

**PIMENTO BERRY.**—Small quantities of English may be obtained at about 80s. per lb.

**RAPESEED.**—Unchanged at £88 per ton.

**Manchester Pharmaceutical Association.**—The Association's Sunday ramble on July 29 will be to Bollington, Kettleshulme and Chinley. Ramblers should meet at London Road Station at 9.20 a.m., booking to Bollington (return).

## TRADE MARKS

(From "The Trade Marks Journal," June 20)

"JENNIFER GRAHAM" (facsimile signature); for skin preparations, cosmetics, toilet preparations (3). By Sandora, Ltd., Waxwell Farm House, Pinner, Middlesex. B631,088.

"FILMETT"; for perfumery, cosmetics, toilet preparations (3). By L. C. Mote, 5 Crescent Way, Orpington, Kent. 632,403.

"COUNTRY LIFE"; for perfumes, preparations for the hair; cosmetic preparations for the face and legs (3). By Delavelle (G.B.), Ltd., 38-46 Orsman Road, Kingsland Road, London, N.1. B632,479.

"PAN-PAK"; for toilet and cosmetic preparations (none consisting of or containing soap), excluding toilet cleaning preparations (3). By Tokalon, Ltd., 356 Oxford Street, London, W.1. B632,818.

"REVELO"; for perfumery, cosmetic and toilet preparations, and sachets for waving the hair (3). By Lennard, Lee-Narvill & Co., Ltd., 216 Anlaby Road, Hull. 633,145.

"PIN-UP GIRL"; for perfumery, toilet and cosmetic preparations and soaps (3). By Mylord Products, 164 Stanway Road, Shirley, Warwickshire. 634,034.

"JENSANO" and "DYSANO"; for sanitary preparations and substances; disinfectants (5). By Ibbetson & Co., Ib-co Works, Great North Road, Stevenage, Herts. 631,748 and 632,752.

Device of a nurse; for toilet paper and paper handkerchiefs (medicated) (5); (non-medicated) (16). By H. Wesley, Ltd., Harlesden Stationery Mills, Acton Lane, London, N.W.10. 632,587-88 (both Associated).

"VIRS"; for yeast tablets, being pharmaceutical tonic preparations (5). By J. H. Robson & Co. (Manufacturing Chemists), Ltd., Tynevale Works, High Street, Newburn-on-Tyne. B632,651.

"CORIODONE"; for pharmaceutical preparations for use in radiography (5). By May & Baker, Ltd., Dagenham, Essex. 632,803.

"MINACRINE"; for pharmaceutical preparations (5). By Boots Pure Drug Co., Ltd., Station Street, Nottingham. 633,045 (Associated).

"OVERPLAS"; for antiseptic medical and surgical dressings (5). By Solidol Chemical, Ltd., Ashmead Works, Disney Street, London, S.E.1. 633,102.

"MASTAMIDE"; for pharmaceutical preparations containing amides, and pharmaceutical substances being amides (5). By Day, Son & Hewitt, Ltd., 22 Dorset Street, London, W.1. 633,577.

"PHARDIS" (in cross device, with colour restriction); for pharmaceutical preparations for internal human use (5). By Pharmaceutical Distributors (Glasgow), Ltd., 187 St. Vincent Street, Glasgow, C.2. 633,590.

"KRINKA"; for pharmaceutical preparations and substances (5). By Ashe Laboratories, Ltd., 120-22 Victoria Street, London, S.W.1. 634,146.

"ZONALIN"; for dental fillings and lining materials (5). By Associated Dental Pro-

ducts, Ltd., Cricklade Road, Purton, nr. Swindon. 634,318.

"SESCOPAK"; for devices for giving hypodermic injections (9). By Surgical Equipment Supplies, Ltd., Westfields Road, North Acton, London, W.3. 632,775.

"LUXANISE"; for all goods (24). By H. Franc & Lauder, Ltd., 4 Chepstow Street, Manchester, 1. 635,040.

"CASCELLOID"; for hair curlers, hair clips, etc. (26). By Cascelloid, Ltd., Britannia Works, Abbey Lane, Leicester. 634,052 (Associated).

(From "The Trade Marks Journal," June 27)

"MILACTO"; for chemical substances for preserving milk (1). By Manx Chemical Co., 106 Heath Road, Penketh, Warrington, Lancs. 631,372.

"FROSSOL"; for anti-freezing preparations (1). By A. G. Carr, 7 Newlay Wood Avenue, Horsforth, nr. Leeds. 634,268.

"LUSTRON"; for sachets for use in waving the hair (3). By Sales Affiliates, Ltd., Elstree Way, Boreham Wood, Herts. B628,914 (Associated).

"MARY DUNHILL"; for cosmetic and toilet preparations and perfumery (3); powder puffs (21). By Mary Dunhill, Ltd., 30 Duke Street, St. James's, London, S.W.1. 629,281-82 (Both Associated).

"INVICTA"; for cosmetics, toilet preparations, soapless shampoo, etc. (3). By Delavelle (G.B.), Ltd., 38-46 Orsman Road, Kingsland Road, London, N.1. 632,480.

"MODEE"; for essential oils, tooth-paste, shaving-cream and hair-cream (3). By Mody & Co., Ltd., 312 Deansgate, Manchester. B632,852.

"VOTYLAR"; for perfumery, toilet and cosmetic preparations, dentifrices (3). By L. Scherk, 47 Carlyle Mansions, London, S.W.1. 634,178 (Associated).

"STERAGLASS"; for preparations for cleaning and polishing glass (3). By Knight's Oil & Chemical Co., Ltd., 77, 79 and 89 Lancaster Street, Birmingham, 4. 634,832.

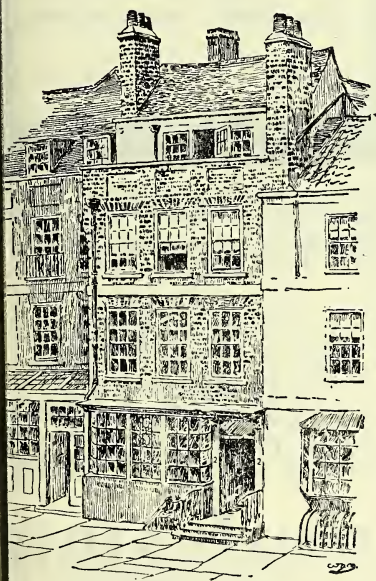
"PINWEAFT"; for pharmaceutical preparations (human and veterinary), sanitary preparations, disinfectants, all containing pine extract (5). By Midland Oil Co., Ltd., 85 Clifford Street, Birmingham, 19. B632,929.

"VANDUARA"; for pharmaceutical substances (5). By J. Logan & Co., 16-18 Niddry Street, Paisley, Scotland. 633,878 (Associated).

"BENZAETHAINE"; for analgesic and anæsthetic pharmaceutical preparations (5). By Bayer Products, Ltd., 14 Waterloo Place, Pall Mall, London, S.W.1. 633,984.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

**For nearly 150 years**  
**Pharmacists have used**  
**HOWARDS' BISMUTH**  
**CARB. B.P.**



**PLOUGH COURT**

where Luke Howard, F.R.S, started  
chemical manufacture with Wm. Allen

Its established position in  
the Dispensary is due to the  
fine quality and especially to  
the property of prompt and  
easy diffusion, which ensures  
uniform dosage. Moreover  
it costs no more to buy  
*Howards' Bi. Carb.*

**HOWARDS OF ILFORD**



**PHENOXETOL**

P.E.E.G.

**THE ANTI-PYOCYANEA  
COMPOUND**

for the effective  
treatment of  
**BURNS, SUPERFICIAL  
WOUNDS, etc.**

**H**ERE is an important new bactericide and antiseptic. Phenoxetol (Nipa) is B-phenoxyethyl-alcohol, specially purified and standardised, for use in medical treatment and for pharmaceutical preparations.

Phenoxetol is effective against certain gram-negative organisms, including Ps. pyocyanea. It is used by local application in the treatment of infected wounds . . . abscesses . . . indolent ulcers . . . associated with Ps. pyocyanea. It should not be used for parenteral injections.

Phenoxetol is very effective in pyocyanea infections of burns or superficial wounds. It is especially useful in the preparations of surfaces for skin grafting associated with Ps. pyocyanea, and may also be used together with Penicillin in solutions and creams.

References : *Lancet* 1944, 247, 175 and 176.  
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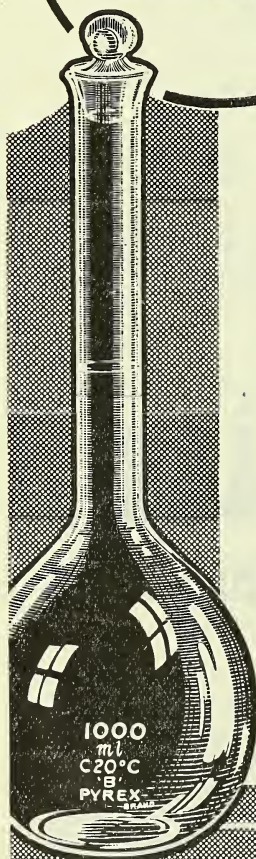


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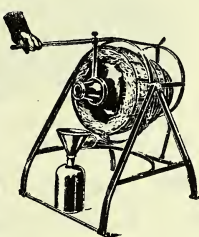
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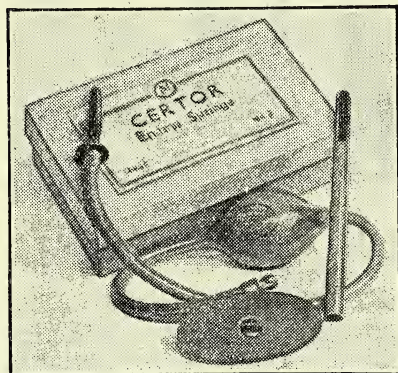
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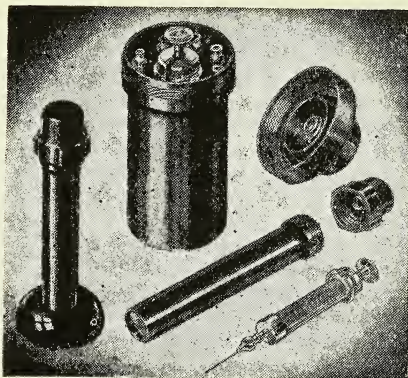
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Injunctions have been granted by the High Court of Justice restraining Traders from passing off Rupture Appliances or Trusses not the manufacture of the Brooks Appliance Co., Ltd., as if they were the Brooks Appliances manufactured by such Company and from using the term "Brooks pattern" or the word "Brooks" in connection with such appliances.

Brooks Rupture Appliances are obtainable only from the sole suppliers, Brooks Appliance Co., Ltd., 80 Chancery Lane, London, W.C.2, and Hilton Chambers, Hilton St., Manchester

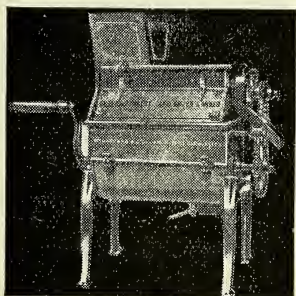
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223

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Hand sifters and mixers are as reliable as the largest machines. They reduce, sift and mix powders with the uttermost perfection. They require no skilled labour, and are the most economical machines for small or moderate producers.

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“... the years  
that the locust  
bath eaten ...”

Since 1939 large numbers of our men and women have been serving their country in the Forces.

Soon many of them will be returning to their homes, anxious to make a place for themselves in the life of a nation pursuing the arts of peace.

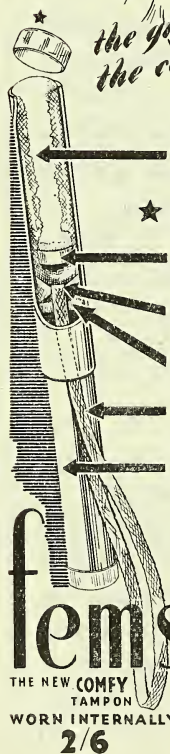
Constructive help will be needed in solving the many business problems that will confront them after long absence from the ordinary affairs of daily life.

The managers of the branches of the Midland Bank have a wealth of experience and knowledge in such matters which they will gladly place at the disposal of men and women — whether customers of the Bank or not — upon their return to civilian life.

**MIDLAND BANK  
LIMITED**



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★ In the interests of hygiene, both ends of Applicator are sealed with transparent caps

Moisture-proof cover inside tampon. prevents seeping and shapes tampon for easy removal

Cord is double-sewn into tampon by patented process to prevent any possibility of it breaking away

End of fabric insulated with non-absorbent thread

Groove in lower tube guides cord, thus giving complete control to the user

The P. Patented grooved tube cannot become detached from outer tube. The apex of the groove meets the centre of tampon and ensures definite insertion

**fems**  
THE NEW COMFY  
TAMPON  
WORN INTERNALLY  
2/6



trade enquiries to  
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## COMPANY MEETING

### M. Calthorpe & Co.

#### DEVELOPMENT OF VIRONITA

At the recent Annual Meeting of M. Calthorpe & Co., Ltd., held at their Ossett Office, Mr. Calthorpe the course of his speech said: "We have laid the foundation for a national company and, now that war has been brought to a successful conclusion, restrictions on supplies are easier, we can forge a still greater achievements until we have a turn in excess of our present sales.

"Vironita' has proved to be outstandingly and successful with the public, and there is no doubt there is a permanent market for this product, fill does a long-standing need. It has created a new market for itself. Many imitations have appeared, but the public, except where we have been unable to supply, have insisted on the original.

"It is in an entirely different market from alcoholic wines, catering as it does for young children, aged people and others who need a tonic restorative and not a wine. The Pharmacy and Chemicals Act also prevents alcoholic wines being advertised as tonics unless the formula is declared, considerably extending the scope for 'Vironita' which we have been very proud to declare the first of its kind.

"Our other proprietary products, paracetamol 'Virotab', are also showing very good promise.

In conclusion, Mr. Calthorpe said that after a visit to the U.S.A. in order to investigate the market there he had arrived at the conclusion that the excellent prospects for the sale of the Company's products there which would be developed as circumstances would permit.

### A name worth remembering **SATINO Toilet Paper** (in Rolls or interleaved Sheets)

The product of paper specialists of world renown and made from the finest thin absorbent tissue paper now permitted. The interleaved sheets are SPECIALLY PROCESSED to give a soft but super soft finish.

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Medical and Dispensing Labels,  
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Envelopes (new wording), with  
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The 100% Killer

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Shortly you, too, will be able to buy.  
For the present we remind you of the miscella-  
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**Emulsifying Wax VX, 7/6 lb., for Hair Cream.**  
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**Perfume** (Water Spirit and Oil Soluble qualities).  
Various Stocks: **Pea-sized Soda Crystals,**  
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**Liquid Shampoo, Camomile, Coconut Oil**  
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# The CHEMIST AND DRUGGIST

## SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

JULY 21  
1945

28 ESSEX STREET, LONDON, W.C. 2

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gently required for packing purposes only, 1,000  
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al.

RRY. Qualified or experienced Unqualified  
Assistant required for brisk Dispensing business  
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Branch in pleasant Midland village, cottage  
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Short hours. No extra duties. Permanency to  
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04, C. & D. London Office.

DY Unqualified experienced Chemists' Counter.  
Permanency. London. Apply 615/173, C. & D.  
n Office.

DY, Unqualified, experienced Chemist's Counter;  
permanency. London. 617/264, C. & D.  
on Office.

CESTER. Young Qualified Manager required  
urgently. Knowledge of small scale manufac-  
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D. London Office.

COLN. Pharmacist (either sex) as Branch  
Manager. No Sunday duty. No half-day duty.  
salary. Apply Secretary, Co-operative Society,  
Free School Lane, Lincoln.

ARMACIST required, as Manager, for West  
London chemist. Permanent job to the right  
ant; lady or gentleman. 617/238, C. & D.  
on Office.

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view expenses paid. Apply giving full particu-  
o Hedges (Chemists), Ltd., 10-12 Dale End,  
ingham, 4.

ARMACIST required immediately as Branch  
Manager. Applications stating age and experi-  
to Oldham Co-operative Chemists, Ltd., King  
e, Oldham.

PHARMACIST required as Branch Manager (no  
Sunday or half-day duty). Salary according to  
Co-operative Pharmacy Scale. Applications, stating  
age, experience, etc., to The General Manager,  
Abersychan and Pontypool Co-operative Society,  
Ltd., Hanbury Road, Pontypool, Mon.

PHARMACIST (male or female) wanted, with  
experience, to manage business in Glasgow area.  
Applications in writing, giving full particulars and  
endorsed "B/M" should be forwarded to Scottish  
Co-operative Wholesale Society, Ltd., Retail Drug  
Department, 187 Bogmoor Road, Shieldhall, Glas-  
gow, S.W.1.

PHARMACIST to take charge branch pharmacy.  
Good residential area London. Living accom-  
modation. Permanency. Apply 615/172, C. & D.  
London Office

QUALIFIED Manager required for Branch Phar-  
macy at Bramley, Leeds. No Sunday of half-  
day duty. One assistant. Permanency. State age,  
experience, salary, etc. W. A. Wharran, Ltd., 27  
Eastgate, Leeds, 2.

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manency) for a well-established Pharmacy,  
good wages and working conditions; no Sunday or  
half-day duty. Applications, stating age, experi-  
ence, etc., to The Secretary, Stockport Industrial &  
Equitable Co-operative Society, Ltd., 27/39 Chester-  
gate, Stockport.

QUALIFIED Dispenser/Assistant required for  
high-class pharmacy. Applicant must be a  
competent and experienced full-time dispenser.  
Accommodation over shop (unfurnished flat) avail-  
able. Apply with full particulars in first letter to  
617/252, C. & D. London Office.

QUALIFIED Manager required for good-class  
business in Bromley, Kent, area. No Sunday or  
half-day duty. Owner in Forces. 617/257, C. & D.  
London Office.

ROYAL ARSENAL Co-operative Chemists, Ltd.,  
invite applications from Qualified Pharmacists  
for the position of Manager. Unqualified assistants  
also required. Good prospects and holidays with  
pay. Apply in writing, stating age, experience, and  
salary required to the Superintendent Chemist,  
Royal Arsenal Co-operative Chemists, Ltd., 113  
Powis Street, Woolwich, S.E.18.

TEMPORARY Assistant wanted for three months  
from 1st August, would suit recently qualified  
or retired or elderly pharmacist. Give usual particu-  
lars and state salary required to S. A. Warner,  
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UNQUALIFIED Lady Assistant required for  
Dispensing and Counter. Old-established West  
London family business. The position offered is  
permanent with good salary and excellent prospects.  
No Sunday or holiday duties. Please apply with full  
particulars and salary expected to 617/242, C. & D.  
London Office.

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Applications with copies of testimonials to  
General Secretary, Plymouth Co-operative Society,  
Ltd., 50 Thorn Park, Plymouth.

WARWICKSHIRE. Required as soon as possible  
a Dispenser with M.P.S. or Hall qualifications  
Good salary, large pharmacy, pleasant working  
conditions. Apply L. H. Lester, Rexall Pharmacy  
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**WEYBRIDGE.** Manager or Locum, Unqualified, end July. Good-class dispensing, etc.; lock-up shop. Good wages and commission to suitable applicant. Ashworth, Church Street, Weybridge.

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**Bournemouth.** Wanted a Holiday Assistant for two weeks, Pharmacist or Unqualified person experienced in dispensing. Male or female. State age, experience and when disengaged. Light retail and dispensing. No N.H.I. Hours 10 to 6.30. Time off for dinner and tea, outdoor. Salary required. Cumber, Chemist, Winton, Bournemouth.

**Leeds.** Qualified Locum wanted from August onwards for holiday period. No Sunday or half-day holiday duty. Good conditions. Apply stating wages required to Secretary, Leeds Industrial Co-operative Society, Ltd., 10 Albion Street, Leeds. Endorsed "Locum."

**Locum (Dispenser)** required for Pharmacy in Berkshire, 30th July to 11th August and 27th August to 1st September, all dates inclusive. 617/253, C. & D. London Office.

**Locum, Unqualified,** for holiday period. London. July to September. 617/265, C. & D. London Office.

**Locum Unqualified** for holiday period London. June to Sept. 615/174, C. & D. London Office.

**Locum** for 6-8 weeks, August and September. Qualified or unqualified, lady or gentleman. No half-day or Sunday duty. State free dates, terms and reference. Oldland, 131 Broadway, Thorpe Bay, Southend-on-Sea. Phone, Thorpe Bay, 8658.

**Qualified Locum** wanted for 10th to 30th September; no managerial, Sunday or half-day duties required. Apply S. A. Warner, Chemist, Didcot, Berks.

### WHOLESALE

**COUNTER Hand** (man or woman) with some experience of Drugs required by leading London House. Good wages and good hours. Reply with the usual particulars and wages required to 617/250, C. & D. London Office.

**CUXSON, GERRARD & CO., LTD.,** Oldbury, require the services of a Representative with a live connexion to cover their interests to Chemists and Drug Stores in industrial Yorkshire and North East England. Full particulars by letter in the first instance.

**EXPERIENCED Tablet Maker and Coater** wanted, Birmingham district. 613/128, C. & D. London Office.

**EXPERIENCED Book-keeper** (male) required by manufacturers in N.W.2 for permanent and progressive post. Must be able to do his own typing. Five-day week. Ex-service man preferred. Apply stating age, experience and salary required to 617/262, C. & D. London Office.

**EXPERIENCED Packer** required for dispatch department of Manufacturing Chemists. Good wages and prospects. Southon Laboratories, Ltd., 88 Upper Richmond Road, S.W.15. Putney 4347.

**FIRST-CLASS opening** in London for Salesman of proved ability. Under 40 preferred with energy and ambition to capitalise very real opportunity. Area high spotted during war; intensive distribution needed and ripe for development. Full range, well-established medical and medicated toilets nationally advertised by well-known house. Salary and commission or commission only, if applicant carrying not more than one other range. Apply CDB/401, C. & D. London Office.

**GENERAL Manager,** aged 35 or over, required for chemical department. Only those with good experience in buying and selling of fine chemicals need apply. Good salary given to right man. Reply giving full particulars of experience should be addressed to Managing Director, Carnegie Bros., Ltd., 227-229 Essex Road, London, N.1.

**GOOD opening** with tremendous opportunity. Qualified Chemist with knowledge of manufacturing Pharmaceutical Chemicals, Ointments, Elixirs, etc. Applicant must be able to make working tests and capable of turning out 100 per cent products. Send full particulars of experience in instance to Chemicals, 616/232, C. & D. London Office.

**GOOD opening** with tremendous opportunity. Qualified Chemist with knowledge of manufacturing Tinctures, Infusions, Decoctions, Extractions, etc. Applicant must be able to make own work tests and capable of turning out 100 per cent products. Send full particulars in first instance to Galenicals, 616/233, C. & D. London Office.

**FIRST-CLASS Tablet Maker** required to take plant capable of turning out 5,000,000 tablets weekly. Applicant must be able to supervise mixing. Tremendous scope for applicant with necessary qualifications. Send full particulars of experience to Tablet Maker, 616/234, C. & D. London Office.

**MANUFACTURING Chemists** require additional representatives in the following areas: Ireland, North and South Wales, S.E. Coast, West East Ridings. Valuable C.F. lines in great demand. 617/244, C. & D. London Office.

**MANUFACTURING Chemists** require active immediately as Order and Dispatch Clerk capable of taking charge. Apply with detail previous employment to Antiseptic Products, 105 Tonbridge Road, Maidstone.

**REPRESENTATIVES** wanted for the following areas: London—above the river, West Northern Scotland, South-East Scotland, and North of England Counties, by a leading Proprietary Company. Applicants must have first-class experience of calling upon the trade and able to draw. Applications, including those from members of the Forces, should state age, experience, compensation (in confidence), and when available to take up duties. Salary expected must also be stated. Replies to 617/269, C. & D. London Office.

**REPRESENTATIVES** calling on Chemists wanted to introduce, on commission basis, new product of high quality prescribed by leading hospitals. State territory covered. 617/247, C. & D. London Office.

**REPRESENTATIVES** wanted calling on members to introduce on commission basis product of high ethical standard. 617/248, C. & D. London Office.

**REPRESENTATIVES** or Agencies able to carry out quick selling line on commission basis invited to state exact territory covered and price of call to actual manufacturers. Sole agency to not entertained. BCM/Bonheure, W.C.1.

**REPRESENTATIVES** wanted on commission basis and with good connexions by first-class wholesale chemists for quick selling lines. The A Chemical Co., 28 Oxford Street, Manchester, 1.

**SALESMEN** or Agents with first-class connexions to Wholesale and Retail Chemists and St. required by Manufacturing Chemists marketing proprietary products. Send fullest particulars in confidence stating age, past experience, exact territory, whether full service or agency is offered. 616/234, C. & D. London Office.

**TRAVELLERS** required with first-class connexions with Wholesale and Manufacturing Chemists. 617/259, C. & D. London Office.

**WELL-KNOWN Company** marketing pharmaceutical specialities requires the services of several representatives to contact hospitals and doctors. There are several territories vacant; each applicant is asked to indicate any individual preference. Full details of age (which should exceed 40), previous experience, pharmaceutical qualifications and availability should be given. Applications will be especially welcomed from members of the Armed Forces who have operational theatre or pharmaceutical experience. Remuneration will be adequate and progressive. Box No. 1, L.P.E., 110 St. Martin's Lane, W.C.2.

## SITUATIONS WANTED

for 18 words or less, 1d. for every additional word.

### RETAIL (HOME)

OTH. Hall Dispenser free. Littlehampton district. 20 years' experience Hospital, Doctor, ist. Apply 617/239, C. & D. London Office.  
N, aged 40, with 25 years' first-class experience in retail, requires situation, Birmingham district. Good dispenser; free September. State etc, CDB/407, C. & D. London Office.

P.S., 39, desires situation with view to succession. Small capital available. Accommodation essential. London area. 28, C. & D. London Office.

ROUGHLY experienced and conscientious Manager, 35, requires situation suburban Manor or district in busy pharmacy. Capital available part interest, and ultimate succession desired. 41, C. & D. London Office.

### CUMS SEEKING ENGAGEMENT

PENSER, Hall, experienced with hospitals, doctors, and baby clinics, desires locums or time; permanency. Locum, 112 Maryland N.22. Bowespark 1320.

ALFIED Manager available as Locum for August, whole or part. Within radius 3 miles on Victoria." Good accommodation essential. Pharmacy only. 616/230, C. & D. London Office.

### WHOLESALE

ERTISER, keen, active, highest credentials, wishes engagement Working Production Manager. Foreman. Long experience retail and manufacturing, toilet, cosmetics, pharmaceuticals; filling, finishing, costings, etc., stock control; tactful user and correspondent; age 49. "J. S." 61, C. & D. London Office.

LOGICAL Chemist, 44 years old, Sc.D., of Vienna, Austria, naturalised French; 20 years' experience in laboratory, manufacturing and construction joint-director in the greatest yeast plant in Europe, wants to find same situation in fermenting biological industry in England or Colonies. Apply to Dr. R. Benesch, 5, Rue de la Citadelle, Paris, Seine et Oise, France.

ECUTIVE, aged 45 years, 16 years' intimate knowledge of Toilet Trade, now free, desires appointment in London or South East England. Experience covers factory production, advertising, marketing, company secretarial duties, office management, accounts interim and final, costing and budgetary control. Also conversant with export and import routine. Unquestionable testimonials. 4, C. & D. London Office.

N, aged 40, free in September, desires position with firm of repute as a representative or in other capacity where good honest work is related. Free September. State salary and offered to capital available. CDB/406, C. & D. London Office.

P.S. aged 35, at present temporary manager in retail trade with large photographic firm, and P. connexion, desires position as representative with reputable photographic firm and drug and haberdashery house. Keen photographer—still and free shortly on return of permanent manager. Licence (no endorsements) for last 18 years. Previous representative experience, but name well known in three north-east counties. Capable hard-worker, conscientious. All answers apply to 617/236, C. & D. London Office.

REPRESENTATIVE with wide selling and propaganda experience—Chemists, Hospitals, Medical and Veterinary professions. Personal connexions. References covering 25 years' experience in Retail, Medical Profession and Wholesale. Sale manufacturing experience includes all departments. Will be interested in any remunerated position. Free 3-4 months. All correspondence treated with confidence. 617/255, C. & D. London Office.

## APPOINTMENTS

### ASSISTANT PHARMACIST

(Locum Tenens)

For Seven Weeks, commencing as soon as possible. Salary Six Guineas per week plus war bonus—19s. per week men, 15s. 6d. per week women. Apply Medical Director, Hill End Hospital, St. Albans.

ASSISTANT PHARMACIST required by MIDDLESEX COUNTY COUNCIL at WEST MIDDLESEX COUNTY HOSPITAL, Isleworth, Middx. Candidates must hold one of Pharmaceutical Society's qualifications. Commencing salary, £250 p.a. Increments of £10 up to £300 p.a. considered annually. War bonus (now £60 p.a.). Unestablished staff. Whole-time duties under Medical Director and Chief Pharmacist. Application, stating age, qualifications and experience, and enclosing copies of not more than three recent testimonials, to MEDICAL DIRECTOR OF HOSPITAL "L.I." Application forms not provided. Male candidates should state position with regard to military service. Closing date, 28th July, 1945.

ASSISTANT PHARMACIST required by MIDDLESEX COUNTY COUNCIL at HILLINGTON COUNTY HOSPITAL, Nr. UXBRIDGE, Middlesex. Candidates must hold one of Pharmaceutical Society's qualifications. Commencing salary £250 p.a. Increments of £10 up to £300 p.a. considered annually. War bonus (now £60 p.a.). Unestablished staff. Whole-time duties under Medical Director. Application, stating age, qualifications, and experience, enclosing up to three recent testimonials to Medical Director "24" of Hospital. Application forms not provided. Male candidates should state position with regard to military service.

### COUNTY BOROUGH OF SOUTHEND-ON-SEA

#### SOUTHEAST MUNICIPAL HOSPITAL

##### ROCHFORD, ESSEX

The Health Committee of the Council invite applications for the post of non-resident Assistant Pharmacist at the above Hospital. Candidates should hold one of the registrable qualifications of the Pharmaceutical Society. The salary is at the rate of £250 per annum, rising by increments of £10 to a maximum of £300, plus cost of living bonus, at present £59 16s. per annum for males, and £48 2s. for females. The provisions of the Local Government and Other Officers' Superannuation Act, 1937, will apply, and the person appointed must satisfy the Council's Medical Examiner. Application forms, which can be obtained from the Medical Superintendent of the hospital, must be completed and returned to him as soon as possible.

H. J. WORWOOD,  
Town Clerk.

June, 1945.

HERTFORDSHIRE County Council E.M.S. Base Hospital, Hemstead House, Hemel Hempstead. Pharmacist in Charge (non-resident). Applications are invited from duly qualified ladies and gentlemen. Salary £325 per annum, rising by annual increments of £12 10s. to £375 per annum, plus cost of living bonus, now 15s. 6d. a week for women and 19s. for men. Assistant Dispenser kept. Applications with full particulars of age, nationality, qualifications and experience, together with copies of two recent testimonials, should be sent to the Medical Superintendent.

### ST. LUKE'S HOSPITAL, GUILDFORD

ASSISTANT PHARMACIST, temporary. Must be M.P.S. or Ph.C. Salary grade £250 plus £10—£300 p.a., plus war bonus 23s. p.w. male, 18s. 6d. p.w. female. Apply to Medical Superintendent.



**LOCUM PHARMACIST** (qualified) required for six weeks from 30th July to 10th Sept. 1945. Fee £7 7s. weekly. Apply to Medical Superintendent, Baguley Sanatorium, near Altrincham, Cheshire.

### METROPOLITAN HOSPITAL

LONDON, E.8

Applications are invited for the post of Assistant Pharmacist. Commencing salary £275 per annum, with lunch. Federated Superannuation Scheme in force. Applications with references should be addressed to the undersigned.

FRANK JENNINGS,

House Governor and Secretary.

### SUNDERLAND EDUCATION COMMITTEE

TECHNICAL COLLEGE  
(DEPARTMENT OF PHARMACY)

Principal: D. A. WRANGHAM, M.Sc.,  
Sen. Wh.Sc., D.I.C.

Applications are invited for the temporary post of DEMONSTRATOR in Pharmaceutical subjects, duties to commence in September or October, 1945. Applicants should hold a qualification of the Pharmaceutical Society or a University degree in Pharmacy.

Salary at the rate of £250 per annum.

The post is designed for a junior person who will also undertake some research work or advanced studies.

Applications, giving full particulars of age, training, qualifications and experience, etc., together with the names and addresses of three referees, should be forwarded to the undersigned not later than the 18th August, 1945.

W. THOMPSON,

Director of Education.  
15 John Street, Sunderland.

**THE** Hertfordshire County Council require immediately an Assistant Pharmacist. Applicants must be qualified. Salary £250, rising by annual increments of £10 to £300, plus a Special Grant which at the moment is 23s. per week in the case of a man and 18s. 6d. in the case of a woman. Applications to the Medical Superintendent, Haymeads, Bishop's Stortford. 4th July, 1945.

### WANTED

7/6 for 36 words or less, 2d. for every additional word.

**L**ARGE or small quantities of bottles required. No quantity too big or small. New and Used. 26-oz. Flat Bottom Wine Bottles; 16-oz Oval Ribbed Poison Bottles; 10-oz. Oval Ribbed Poison Bottles; 12-oz. Panel Bottles; 4-oz. Panel Bottles; 12-oz. Round Bottles. Send fullest details to 612/983, C. & D. London Office.

**U**RGENTLY required. Outers for 4-oz. panelled Emulsion Bottles. New or second-hand. Southon Laboratories, Ltd., Putney 4347.

**W**ANTED. 4-oz. Medical Bottles, screw neck or cork mouth, required for Pharmaceutical purposes. Any quantities from 10 gross to 500 gross lots. Offers to E.J.H., 22 St. Faiths Rd, London, S.E.21.

### MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words or less

**N**AME Plates and Signs for Chemists neatly engraved. Send wording for full-size sketch and list. (Enclose 3d. stamps.) G. Male & Son, Ltd., Engravers, 367 Euston Road, London, N.W.1.

**R**UBBER Corks, Ammonia type, black and drab, 150 gross. Various sizes to clear. Esco (Rubber) Ltd., 78/80 Stamford Hill, London, N.16.

**S**URPLUS stock—7 gross of 40 oz. White Flint Glass Bottles, winchester shape, cork mouth. Samples on application. What offers? 617/261, C. & D. London Office.

## EXPORT TRADE

**C**YLON'S LEADING SALES ORGANISATION with over 50 Sales-Agency Depots and Importing on own account is open to take up Agencies. Pharmaceutical Specialities, Druggist Sundries, Medical and Rubber appliances, Toilet preparations, Cosmetics, Perfumery, Confectionery and Food Products, etc. First-class Bank and Trade references available. Offers welcome. Universal Trade & Drug Co., Ltd., (Agency Dept.) G.P.O. Box 35 Queen Street, Fort, Colombo (Ceylon).

**M**ESSRS. DINKER & CO., 88 Vithalbai P. Road, Bombay, 4, invite connexions for competitive manufacturers and reliable export handling Chemicals and Drugs. Bankers East Bank, Ltd., Bombay; National Bank of India, Bombay. Reference: Messrs. Biddle, Sawyer & Ltd., Empire House, London.

**S**WEDEN. Firm with selling organisation throughout Sweden wants agencies for Gauze for Bandages, Tapes and Plasters, Rubber Gl and Surgical Rubber Articles, Syringe Needles, Hypodermic Syringes and Pharmaceutical preparations. Replies requested to A/B Förbandsmate Gothenburg.

**S. E. LEVY, of RAWAK STREET, BAGHDAD, IRAQ,** wishes contact Manufacturers of Chemicals and Pharmaceutical Products with view of representation and Agencies. References: Imperial Bank of Iran, London.

**THE ANSOL CHEMICAL CO., 28 Oxford Street, Manchester, 1,** wishes contact Manufacturers who have goods available for export. Particular for W. Africa. Specially interested in Razor Blades, Perfumes, Brilliantine, Bakelite and Plastic goods, Cutlery, etc. Please send samples and price, etc.

### BUSINESS OPPORTUNITIES

7/6 for 40 words or less, 2d. for every additional word

**W**HOLESALERS interested in the distribution of a pharmaceutical hairdressing and dandruff preparation, manufactured as cream brilliantine, for certain areas still open, please communicate with 616/222, C. & D. London Office.

### BUSINESSES WANTED

7/6 for 40 words or less, 2d. for every additional word

**W**ANTED to purchase a good-class pharmacy in a nice residential district—London or South. Pre-war turnover not less than £3000. Full details in confidence to "McH." c/o The British Houses, Ltd., London, N.1.

## AGENCIES

7/6 for 36 words or less, 2d. for every additional word

**E**GYPT. Well-established firm (capital resources £50,000) seeks additional agencies in the Middle East. Pharmaceutical Products, Cosmetics, Medical Instruments and Sundries. Representative present in this country. Replies to M. Telles Lange Lime Court, Bayswater, W.2.

**O**LD Established Yorkshire Company open offices in London (West End) in August on open to accept one or two Agencies on a Commission or Buying Basis. Must be competitive lines suitable for Chemist, Stores, Hairdressers or Fancy Goods dealers. 616/225, C. & D. London Office.

**W**HOLESALE Chemists' distributors with long connexion amongst wholesale and retail trade and leading stores, also with good selling organisation, require additional quick selling lines. Please send samples and particulars to The Ansol Chemical Co., 28 Oxford Street, Manchester, 1.

**W**HOLESALE Chemist, M.P.S.I., Dublin, is personally contacting retail chemists, open good agency; storage and packing facilities available 611/938, C. & D. London Office.



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AND FINE CHEMICALS  
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It cannot be contained in fetters—otherwise it is not Freedom.

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The New World for which we have fought and won must be Free—if we, the people of the world, are to survive.

*“For love is as hard to receive as  
it is to give:  
And can only be given perfectly,  
By the free in heart.”*

FRANK TOWNSEND—“Earth”

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